EPA REGISTRATION NUMBER 56783-2 – VOL. 1

EPA REG. NO.

56783-2

Date of Application	ACTION CODE	RECORD NO./ REF. NO.	EVENT	RESPONSE DATE	RESPONS CODE
1/19/90	105	10.77.013 4	Registration	7/18/90	18
11/12/91	305	407829	Add Homeowner & Use	6/02/92	3817
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3/19/92	306	414635		6/22/92	38
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SEPA	Environmental	nited States	Agency		Regis	stration ndment	OPP Identifier Number
The state of the s		Application 1	for Pestic	de - Sec	tion I	Carle See	
1. Company/Product Number	THE RESERVE THE PARTY OF THE PA	promote and an extension	2. EPA	Product Man		2	roposed Classification
A Company/Product (Name)	INC. Mitt	ALLES	PM#	Camp Food 185	101 112		Sinone Mesancies
5. Name and Address of App E 33 B		0	6. Exp (b)(i), i to: EPA	my product i	is similar or id		FIFRA Section 3(c)(3) omposition and labeling
Gripen II. tills	is a new address		Section -	uct Name			
Amendment - Explain Resubmission in resp Notification - Explain	onse to Agency letter o		Section -	Final printed Agency lett "Me Too"	d labels in reps ter dated Application.	sonse to	NOTIFICATION JAN 2 0 2004
the confident statements t requirements	ents of EPA's regulation Ial statement of formuto To EPA. I further under	ons at 40 CFR 15 ula of this produc stand that if thi 40 CFR 152.46,	6.10 and 40 ct. I understand this product	CFR 152.46 a and that it is is not consis	and no other c a violation of stent with the	hanges have 18 U.S.C. Sec guidance of A and I may b	nce in PR Notice 2001-6 and been made to the labeling or 1001 to willfully make false PR Notice 2001-6 and the be subject to enforcement
Commence and an interest	A STATE OF THE STATE OF THE STATE OF	Language S	Section -	11-18-29	nioli .		
1. Material This Product Will	Be Packaged In:	described to the		Average determine			
Certification must be submitted	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per If	Yes No "Yes" ackage wgt	No. per container		e of Containe Metal Plastic Glass Paper Other (Specify)
3. Location of Net Contents I	nformation 4	1. Size(s) Retail C	ontainer		5. Location of	Label Directi	ons
6. Manner in Which Label is	A STATE OF THE PARTY OF THE PAR	Lithograph Paper glued Stenciled	d	Other			
			ection - I	V			
1. Contact Point (Complete i	items directly below for	A 0.000 P.O			if necessary, to	o process this	application.)
Name ACEKANDS	r tover	Title	Fresi	DENT			No Include Area Code)
I certify that the statem I acknowledge that any both under applicable is	knowlingly false or m		ttachments the				6: Date Application • Received • (Stamped)
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4. Typed Name LE KAN	DER FOUE	L 5. De		29,20	TIL EDE I	noferit	8.c. 3
PA Form 8570-1 (Rev. 3-94)	Previous editions are o	bsolete.	Lancia A	Whit	te - EPA File Co	opy (original)	

ECOHEALTH, INC.

Monday, December 29, 2003

George LaRocca
US Environmental Protection Agency
Pesticide Programs (7504C)
Document Processing Desk (AMEND)
401 M Street S.W.
Washington, DC 20460-0001

Re: 56783-1 (Damminix) and 56783-2 (Mite Arrest)

Dear Mr. LaRocca,

I am sending you under separate cover three different items:

• two Notifications, (one for each of the above pesticides, 56783-1 and 56783-2, under PR Notice 2001-6), and

one Amendment of the label for 56783-2, required by PR Notice 2001-1.

No Amendment for 56783-1 under PR Notice 2001-1 is required, since one was accepted by EPA on January 16, 2002. Unfortunately, at that time I simply overlooked the requirement to file the same First Aid label amendment for 56783-2. Hence, I am enclosing it at this time.

You were very kind to answer my questions on the phone last week, and I hope I have submitted these various applications correctly. If anything else is needed or corrections are required, I will be very pleased to send them immediately.

Thank you very much.

I am sonaing you under separate cover turce different terms

* two Nothications, (one for such of this above pseticides, 06700-1 sid-6675/-/

Cander Fix Notice, 255-6), and

Sincerely.

Sincerely.

INSECTICIDAL BEDDING FOR LABORATORY RODENTS

For Laboratory, Commercial or Veterinary Use

EPA Reg. No. 56783-2

EPA Est. No. 5693 MA 1

Permethrin impregnated cotton bedding to control mite infestations on laboratory rodents.

ACTIVE INGREDIENT:

+* Permethrin _

INERT INGREDIENTS: ____

Total 100.0%

92.6% _7.4%

2-dimethylcyclopropanecarboxylate. + (3-phenoxyphenyl) methyl (+/-) cis/trans 3-(2,2 dichloroethenyl)2

* Cls/trans ratio: Min. 35% (+/-) cls and max. 65% (+/-) trans

CAUTION: KEEP OUT OF REACH OF CHILDREN

FIRST AID

INGESTION - If swallowed:

- Call a poison control center or doctor immediately for treatment advice.
 Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.

Do not give anything by mouth to an unconscious person.

EXPOSURE, SKIN IRRITATION - If on skin or clothing: Take off contaminated clothing.

- Rinse skin immediately with plenty of water for 15-20 minutes
- Call a poison control center or doctor for treatment advice.

EYES - If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Have the product container or label with you when calling a poison control center or doctor, Call a poison control center or doctor for treatment advice.

or going for treatment.

Net Weight 2.5 lbs

INSECTICIDAL BEDDING FOR LABORATORY R ODENTS

a manner inconsistent with its labeling. **DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in

provide greater long-term control and prevent reinfestation. of the product (until all eggs have hatched or are no longer present) will rodent. As mite eggs are not affected by this treatment, extended use weeks, or until mittes or their eggs are no longer present in the Avoid wetting the MITEARREST bedding; to prevent cage flooding, care APPLICATION INSTRUCTIONS: Place MITEARREST bedding directly in rodent bedding is changed. Continue using the product for four (4) should be taken to place MITEARREST bedding away from the water cage to be treated. Use 2-3 MITEARREST balls per week for each rodent. that fresh MITEARREST bedding be added weekly, at the time spout. Replace soiled MITEARREST bedding; it is recommended fur of when other o six (6)

or feed by storage. STORAGE: Store at room temperature. Do not contaminate water, food

DISPOSAL

If empty:

If partly filled:

Do not reuse this container

Never place unused product down any indoor or Call your local solid waste agency or Place in trash or offer for recycling if available. 1-800-234-8425 for disposal instructions.

PRECAUTIONARY STATEMENTS

outdoor drain.

sensations. Wash thoroughly with soap after handling. and skin. Contact with skin may result in temporary numbing and tingling HAZARDS TO HUMANS & DOMESTIC ANIMALS: Avoid contact with eyes

other aquatic organisms. Do not apply directly to water, or to water mark. Do not contaminate water by disposal of wastes where surface water is present or to intertidal areas below the NOTE: This product contains a pyrethroid insecticide which the caged equipment washwaters. **ENVIRONMENTAL HAZARDS:** This product is extremely toxic to fish and 9 mean high areas

animal may ingest or come into dermal contact with. Researchers should consider the possible effects of contact with this insecticide before using the product.

U.S. Patent No. 4,662,104

33 MT. VERNON ST. BOSTON, MASSACHUSETTS 02 © 2004, ECOHEALTH, INC. 617-742-2400 108

> NOTIFICATION JAN 2 0 2004

JAN 2 1 2004

Mr. Alexander Kousc EcoHealth, Inc. 33 Mt. Vernon Street Boston, MA 02108

Dear Mr. Kousc:

Subject: Label Amendment- PR Notice 2001-1

Mite Arrest

EPA Registration Number 56783-2

Your submission dated December 29, 2003

The application referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable, and a copy of a stamped label is enclosed for your records.

Sincerely yours,

George T. LaRocca Product Manager (13) Insecticide Branch Registration Division (7505C)

Enclosure

EARRES1

INSECTICIDAL BEDDING FOR LABORATORY RODENTS

For Laboratory, Commercial or Veterinary Use

EPA Reg. No. 56783-2

EPA Est. No. 5693 MA 1

Permethrin impregnated cotton bedding to control mite infestations on laboratory rodents

ACTIVE INGREDIENT:

----7.4% 92.6% Permethrin INERT INGREDIENTS:

Total 100.0%

+ (3-phenoxyphenyl) methyl (+/-) cis/trans 3-(2,2 dichloroethenyl)2,

2-dimethylcyclopropanecarboxylate

* Cis/Itans ratio: Min. 35% (+/-) cls and max. 65% (+/-) trans.

T OF REACH OF CHILDREN CAUTION: KEEP OU

FIRST AID

INGESTION - If swallowed:

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Have person sip a glass of water if able to swallow.
Do not induce vomiting unless told to do so by a poison control center or doctor.
Do not give anything by mouth to an unconscious person.

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 Rinse skin immediately with plenty of water for 15-20 minutes.

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Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

 Call a poison control center or doctor for treatment advice.
 Have the product container or label with you when calling a poison control center or doctor, or going for treatment

Net Weight 2.5 lbs.

Actual Size

MITEARRES1

NSECTICIDAL BEDDING FOR LABORATORY RODENTS

DIRECTIONS FOR USE: It is a violation of Federal law to use this product in a manner inconsistent with its labeling. APPLICATION INSTRUCTIONS: Place MITEARREST bedding directly in rodent that fresh MITEARREST bedding be added weekly, at the time when other cage to be treated. Use 2-3 MITEARREST balls per week for each rodent. of the product (until all eggs have hatched or are no longer present) will Avoid wetting the MITEARREST bedding; to prevent cage flooding, care rodent. As mite eggs are not affected by this treatment, extended use bottle spout. Replace solled MITEARREST bedding; it is recommended bedding is changed. Continue using the product for four (4) to six (6) should be taken to place MITEARREST bedding away from the water weeks, or until mites or their eggs are no longer present in the fur of provide greater long-term control and prevent reinfestation. STORAGE: Store at room temperature. Do not contaminate water, food or feed by storage.

DISPOSAL

Do not reuse this container. If empty:

Place in trash or offer for recycling if available.

Call your local solid waste agency or If partly filled:

1-800-234-8425 for disposal instructions.

Never place unused product down any indoor or outdoor drain.

PRECAUTIONARY STATEMENTS

and skin. Contact with skin may result in temporary numbing and tingling HAZARDS TO HUMANS & DOMESTIC ANIMALS: Avoid contact with eyes sensations. Wash thoroughly with soap after handling.

where surface water is present or to intertidal areas below the mean high ENVIRONMENTAL HAZARDS: This product is extremely toxic to fish and other aquatic organisms. Do not apply directly to water, or to areas water mark. Do not contaminate water by disposal of wastes or equipment washwaters.

NOTE: This product contains a pyrethroid insecticide which the caged animal may ingest or come into dermal contact with. Researchers should consider the possible effects of contact with this insecticide before using the product.

U.S. Patent No. 4,662,104

© 2004, ECOHEALTH, INC.

33 MT. VERNON ST. BOSTON, MASSACHUSETTS 02108 617-742-2400

Actual Size

ACCEP

os emences, ser registered tader EPA Beg. No. 56783-2 Under the Federal Ensecktide, Fungickle, and Redentickle Act, as emended, for the pesticide registered mader

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	Form Approve	d OMB No 2070	-0060. Approval expires 2-28-95
United States Environmental Protection Age Washington, DC 20460		Registration Amendment Other	OPP Identifier Number
Application for I	Pesticide - Section	1	
1. Company/Product Number 56783 - 2	2. EPA Product Manager	eacca	3. Proposed Classification None Restricted
4. Company/Product (Name) ECO H EQUITH, INC. / MITE ARLES	CEC AIR CONTRACTOR OF THE PERSON OF THE PERS		Mone Headington
5. Name and Address of Applicant (Include ZIP Code) EcoHealth, Inc. 33 Mt. Vernon St. Boston, MA 02108 617 742 2400 Fax 617 742 4953	6. Expedited Reveiw		with FIFRA Section 3(c)(3) in composition and labeling
Check if this is a new address	Product Name		
Sec	tion - II		
Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below.	Final printed laborated Agency letter da "Me Too" Application of the Control of t	cation.	
Explanation: Use additional page(s) if necessary. (For section I and Se As PSG PL NOTICE 2001-1 R	E FIRST AZ	STATEME	NT
	ion - III		
1. Material This Product Will Be Packaged In:		1	
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be submitted Unit Packaging wgt. container Packaging	e wgt container	Oth	ner (Specify)
3. Location of Net Contents Information 4. Size(s) Retail Contain	ner 5. L	ocation of Label Di	rections
6. Manner in Which Label is Affixed to Product Lithograph Peper glued Stenciled	Other		
Sect	ion - IV	Maria Barrer	NEW YORK OF THE PARTY OF THE PA
1. Contact Point (Complete items directly below for identification of indivi			
Name AUSTANDER FOUEL Title 9	cesidon	Telep	phone No. Sinclude Area Code) 7 9 1.2 2400
Certification I certify that the statements I have made on this form and all attach I acknowledge that any knowlingly false or misleading statement months to the statement of t			e. Separate Application •• Received •• Stamped)
10000	Los Devo	70 r six	
4. Typed Name ALEXANDER FOUEL 5. Date D FPA Form 8570-1 (Rev. 3-94) Previous editions are obsolete	E 27, 2003	DA Ella Conv. Joria	8

ECOHEALTH, INC.

Monday, December 29, 2003

George LaRocca
US Environmental Protection Agency
Pesticide Programs (7504C)
Document Processing Desk (AMEND)
401 M Street S.W.
Washington, DC 20460-0001

Re: 56783-1 (Damminix) and 56783-2 (Mite Arrest)

Dear Mr. LaRocca,

I am sending you under separate cover three different items:

- two Notifications, (one for each of the above pesticides, 56783-1 and 56783-2, under PR Notice 2001-6), and
- ✓ one Amendment of the label for 56783-2, required by PR Notice 2001-1.

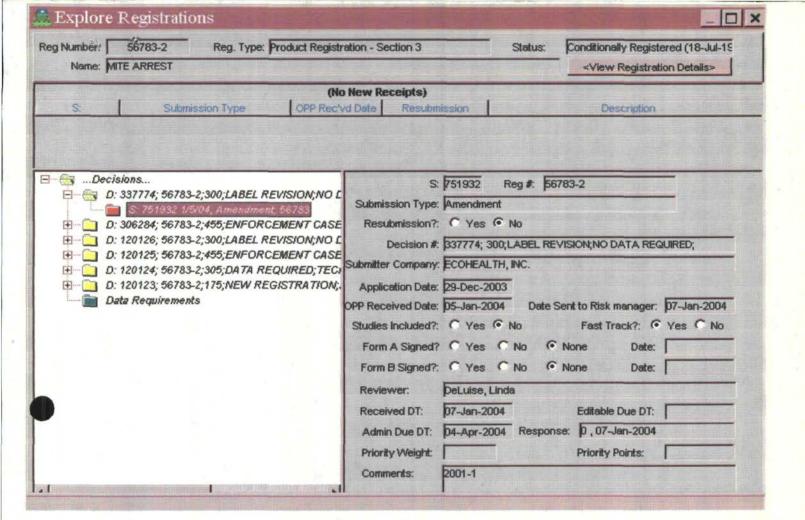
No Amendment for 56783-1 under PR Notice 2001-1 is required, since one was accepted by EPA on January 16, 2002. Unfortunately, at that time I simply overlooked the requirement to file the same First Aid label amendment for 56783-2. Hence, I am enclosing it at this time.

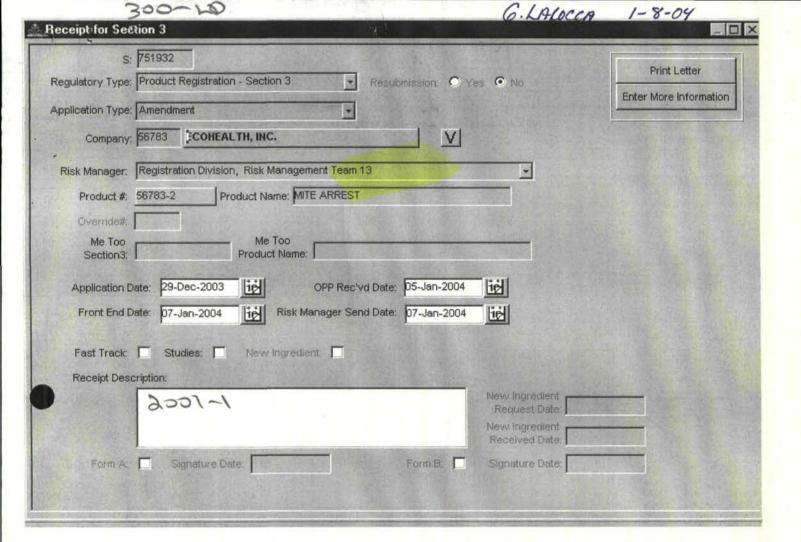
You were very kind to answer my questions on the phone last week, and I hope I have submitted these various applications correctly. If anything else is needed or corrections are required, I will be very pleased to send them immediately.

Thank you very much.

Sincerely,

Alexander Kovel







UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

January 7, 2004

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

ALEXANDER KOVEL ECOHEALTH, INC. 33 MT. VERNON ST. BOSTON, MA 02108

PRODUCT NAME: MITE ARREST

COMPANY NAME: ECOHEALTH, INC.

EPA FILE SYMBOL: 56783-2 EPA RECEIPT DATE: 01/05/04

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Registration Division, Risk Management Team 13, at (703) 305-6100.

Sincerely,

7-Wrice

Front End Processing Staff

Information Services Branch

Information Resources and Services Division

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAY 1 7 1993

300 544080

Mr. Fred DeFinis President EcoHealth, Inc. 110 Broad Street Boston, MA 02110

Dear Mr. DeFinis,

Subject: Compliance with Labeling Requirements in PR notice 93-3
Your Letter Dated April 26, 1993

The above referenced letter to Lawrence Culleen was forwarded to me for response. In your letter you indicate that you intend to comply with the labeling changes outlined in PR notice 93-3 concerning the statement prohibiting application to water but request an extension from the April 21, 1994 deadline. In order for us to consider such a request, you must indicate an estimated amount of time needed to comply and/or an agenda for implementing the required changes.

Please feel free to contact me at (703) 305-6100 if you have any questions.

Sincerely,

George T. LaRocca Product Manager (13) Insecticide-Rodenticide Branch Registration Division (H7505C)

				CONCURREN	CES		
SYMBOL							4 4 6
URNAME)	True	***************************************		1	***************************************	 *****************	***************************************
DATE	5)14/93	***********		1		 	13

glesse region directly or The Makers of DAMMINIX . . . for control of Lyme Disease carryin respond April 26, 1993 Mr. Lawrence E. Culleen Acting Director Registration Division (H 7505 C) Environmental Protection Agency Washington, D.C. 20460 Dear Mr. Culleen: We have received PR notice 93-3 "Labeling Statement Prohibiting Application to Water" and intend to comply as quickly as possible but request an extension from the proposed April 21, 1994 deadline. As I explained to Jeff Kempter, EcoHealth is a small company (less than \$1 million in sales). In order to buy packaging and other labeled components at affordable prices, we purchase several year's supply at a time. Even then, the unit cost of our labeling (box and tubes) is over \$3.00 compared to 3-5¢ for a typical pesticide label. The financial cost of complying with the proposed 1994 deadline would be disastrous for our company, and for the thousands of people who depend on Damminix for protection from Lyme disease carrying ticks. Damminix has much less toxicity and impact on the environment than other tick control methods. In addition, the active ingredient (permethrin @ <1/2 ounce A.I./acre) is impregnated in the cotton fiber and nearly insoluble in water. If Damminix is no longer available, homeowners will be forced to resort to compounds that are used at significantly higher rates and have much more environmental impact. If you can give EcoHealth some flexibility on the deadline, we will make the desired changes as quickly as we are able while continuing to provide homeowners with the least toxic approach to deer tick control. Please contact me regarding an extension to the deadline. Thank you for your consideration. Sincerely, Fred DeFinis President CERTIFIED MAIL #655 440 088 RETURN RECEIPT REQUESTED REGISTRATION DIVISION H-7505C 110 Broad Street, Boston, Massachusetts 02110 Telephone: (617) 742-2400 Fax: (617) 350-4220 10/3/92 Chow 652BB

2-0658 12/5/91

DP BARCODE: D171969

DATA PACKAGE RECORD

SUBMISSION: S407829 BEAN SHEET DATE: 12/04/91

Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: REGISTRATION

CASE: 027678

ACTION: 305 TECH-LBL REV AMND DATA RE

CHEMICALS: \$109701 Permethring

07.4000%

ID#: 056783-00002 MITE ARREST COMPANY: 056783 ECOHEALTH, INC.

PRODUCT MANAGER: 13 GEORGE LAROCCA

703-305-6100 ROOM: CM2 202

PM TEAM REVIEWER: THERESA LEMASTER

703-305-5418 *ROOM: CM2

RECEIVED DATE: 11/22/91 DUE OUT DATE: 02/20/92

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 171969 EXPEDITE: N DATE SENT: 12/04/91 DATE RET.:

CHEMICAL: 109701 Permethrin

DP TYPE: 001 Submission Related Data Package

ADMIN DUE DATE: 01/18/92 LABEL: Y CSF: Y

ASSIGNED TO DATE IN DATE OUT DIV : HED / / BRAN: SACB SECT: RS REVR: CONTR:

* * * DATA REVIEW INSTRUCTIONS * * *

ATTN: FLORA CHOW

PLEASE COMMENT ON PROPOSED LABEL AMENDMENT TO INCLUDE "HOMEOWNER" USE OF THIS PRODUCT.

LAST HED REVIEW (APR 19, 1990 - COPY ENCLOSED) WAS MADE IN REFERENCE TO LABEL WHICH LIMITED USE OF THIS PRODUCT TO "COMMERCIAL/VETERINARY USE ONLY" (COPY ENCLOSED).

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC BRANCH/SECTION DATE OUT DUE BACK INS CSF LABEL



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

OCT 0 3 1992

MEMORANDUM

SUBJECT: Risk Assessment for Mite Arrest

TO:

Theresa LeMaster/George LaRocca, PM 13

Registration Division (H7505C)

FROM:

Flora Chow, Acting Section Head Flora Chor 30 Sept 92

Reregistration Section

Chemical Coordination Branch Health Effects Division (H7509C)

THROUGH:

Esther Saito, Acting Chief

Chemical Coordination Branch Health Effects Division (H7509C)

> HED Project No.: Submission No.:

2-0658 S407829

Caswell No.:

652BB

A revised exposure assessment for the product Mite Arrest (J. Tice. Exposure Assessment for Mite Arrest. Memorandum to G. LaRocca. 17 July 1992) has been conducted by OREB. This assessment supersedes a memo dated 17 March 1992 on the same subject. A risk assessment based on this new information is detailed below.

CONCLUSION

- o The HED Peer Review Committee on Carcinogenicity classified permethrin as a Group Cq carcinogen; the estimate of unit risk, Q₁*, is 1.8 x 10⁻² (mg/kg/day)⁻¹.
- The extra cancer risk to consumers (generally children) who use the product in animal cages is estimated at 5×10^{-7} .

DISCUSSION

The revised exposure assessment from OREB contains the following changes:

- (1) A 0.5 oz container of Mite Arrest cotton balls contains 0.037 g active ingredient. (The former memo gave an amount of 2.8 g active ingredient per 0.5 oz container.)
- (2) The amount of permethrin migrating to the skin from the cotton balls is assumed to be 4%; this is the amount found to migrate to skin from permethrin-treated cotton battle dress uniforms. (The former memo assumes 100% migration.)

Based on this information, exposure to permethrin is expected to be 0.139 mg/kg/year for a 35 kg child.

<u>Risk characterization.</u> Estimates of the extra cancer risk is calculated from the following equation:

Extra risk = LADD x Q_1*

where:

LADD = $\frac{0.139 \text{ mg/kg/yr}}{365 \text{ days}}$ x $\frac{70}{70}$ x Absorption

Dermal absorption = 7% This is based on (1) a rabbit dermal absorption study where 30 to 70% of permethrin was found to be absorbed, and (2) rabbit skin is 10 to 15 times more permeable than human skin.

and $Q_1 * = 1.84 \times 10^{-2} (mg/kg/day)^{-1}$

The extra risk to a child using the permethrin containing Mite Arrest is calculated to be 5×10^{-7} .

cc: M. Copley

J. Doherty

J. Tice

JUN 22 1997

Mr. Fred DeFinis President EcoHealth, Inc. 110 Broad Street Boston, MA 02110

Dear Mr. DeFinis,

Subject: Amendment - Homeowner Use Labeling

Mite Arrest

EPA Registration Number 56783-2

Your Submissions Dated November 12, 1991

and March 16, 1992

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable, provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

On the commercial label delete the user limitation "For Laboratory, Commercial or Veterinary Use Only" since the product can also be used in the home.

We have reevaluated the inhalation and dermal exposure to the homeowner from handling the product and having the product in the home and conclude that such exposure is comparable to other accepted uses of permethrin in the home. However, to minimize any potential exposure in the home environment, we strongly encourage you to modify the shape or color of the product so that it does not so closely resemble cotton balls used for non-pesticide purposes.

Submit five copies of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

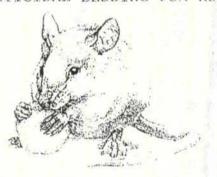
Sincerely,

George T. LaRocca Product Manager (13) Insecticide-Rodenticide Branch Designation Division (UTEOEO)

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			CONCURRENC	ES			
SYMBOL	Enclosure						
SURNAME	me						
DATE	6/18/BZ			4.0			
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ITEARREST®

INSECTICIDAL BEDDING FOR RODENTS



FOR HOME PET USE

EPA Reg. No. 56783-2 EPA Est. No. 5693 MA 1 Permethrin impregnated cotton bedding to control mite infestations on rodents.

ACTIVE INGREDIENTS:

+* permethrin.... 92.6% Total 100.0%

+(3-phenoxyphenyl methyl (+/-) cis/Irans 3-(2dichloroethenyl)-2.2-dimethyl cyclopropane-carboxylate

*Cis/trans ratio: Min. 35% (+/-) cis and max. 65% (+/-) trans

KEEP OUT OF REACH OF CHIEDREN

CAUTION Statement of Practical Iroalment IF SWALLOWED - Contact a physician or Poison Control

Center immediately.

IF ON SKIN - Remove contaminated clothing and wash affected areas with plenty of soap and water.

IF IN EYES - Flush eyes with plenty of water. Call a physiclan It Irritation persists.

See additional precautionary statements

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

APPLICATION INSTRUCTIONS

Place MITEARREST bedding directly in rodent cage to be treated. Use 2-3 MITEARREST balls per week for each rodent. Avoid wetting the MITEARREST bedding: to provent cage flooding, care should be taken to place MITEARREST bedding away from the water bottle spout. Replace solled MITEARREST bedding; It is recommended that fresh MITEARREST beading be added weekly, at the time when other bedding is changed. Continue using the product for four to six weeks, or until mites or their eggs are no longer present in the fur of radent. As mile eggs are not affected by this treatment, extended use of the product (until all eggs have natched or are no longer present) will provide greater long-term control and prevent reinfestation.

STORAGE AND DISPOSAL

Store at room temperature. Do not contaminate water, food or feed by storage or disposal. Unused or soiled MITEARREST bodding is biodegradable and may be dis posed of with other bodding (such as wood chips, show ings, etc.) or refuse. Soiled MITEARREST bedding may be autoclaved or incinerated.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS Avoid contact with eyes and skin. Chronic exposure to skin may cause dermal irritation or tingling. Wash thoroughly with soap after handling.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. Do not contaminate water by disposal

U.S. Patent No. 4,662,104

EcoHealth, Inc., (617) 742-2400 110 Broad Street, Boston, MA 02110 Net. weight .5 oz.

der the Federal Insecticide, agicide, and Rodenticide Act amended, for the pesticide distered under EPA Reg. No. 56783-

ACCEPTED L COMMENTS JUN 22 1992.

To: alex foul 4-4-96
FROM John Nelsent
7033055469

ACTIVITY REPORT

TRANSMISSION OK

TX/RX NO.

5834

CONNECTION TEL

916173506260

CONNECTION ID

G3

START TIME

07/22 12:41

USAGE TIME

01'25

PAGES

2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

FACSIMILE REQUEST / COVER SHEET

OFFICE OF PESTICIDES AND TOXIC SUBSTANCES

SEND	FAX TO:
	NAME: Fred De Finis
	of: Ecohealth
	FAX PHONE NUMBER: (6/7) 350-6260
	office phone number: (617) 742 - 2400
FROM:	
•	NAME: Theresa LeMaster
	DIVISION/BRANCH: PD) 18B
	office phone number (103) 3 05-5418
	OFFICE ROOM NUMBER:
	MAIL CODE:
	DATE: 7/22 190 TIME:
	NUMBER OF PAGES (including cover sheet):
	SPECIAL MESSAGE:

652BB

2-0658

DP BARCODE: D171969

CASE: 027678 UBMISSION: S407829

DATA PACKAGE RECORD

BEAN SHEET

DATE: 12/04/91

Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: REGISTRATION ACTION: 305 TECH-LBL REV AMND DATA RE

CHEMICALS: 109701 Permethrin

07.4000%

ID#: 056783-00002 MITE ARREST COMPANY: 056783 ECOHEALTH, INC.

PRODUCT MANAGER: 13 GEORGE LAROCCA 703-305-6100 ROOM: CM2 202 PM TEAM REVIEWER: THERESA LEMASTER 703-305-5418 ROOM: CM2 204

RECEIVED DATE: 11/22/91 DUE OUT DATE: 02/20/92

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 171969 EXPEDITE: N DATE SENT: 12/04/91 DATE RET.: / /

CHEMICAL: 109701 Permethrin

DP TYPE: 001 Submission Related Data Package

MIN DUE DATE: 01/18/92 CSF: Y LABEL: Y

ASSIGNED TO DATE IN DATE OUT DIV: HED // //

* * * DATA REVIEW INSTRUCTIONS * *

ATTN: FLORA CHOW

PLEASE COMMENT ON PROPOSED LABEL AMENDMENT TO INCLUDE "HOMEOWNER" USE OF THIS PRODUCT.

LAST HED REVIEW (APR 19, 1990 - COPY ENCLOSED) WAS MADE IN REFERENCE TO LABEL WHICH LIMITED USE OF THIS PRODUCT TO "COMMERCIAL/VETERINARY USE ONLY" (COPY ENCLOSED).

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC BRANCH/SECTION DATE OUT DUE BACK INS CSF LABEL



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

JUN 1 7 1992

OFFICE OF PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM:

SUBJECT: EXPOSURE ASSESSMENT FOR MITE ARREST, EPA REG # 56783-2

TO:

George LaRocca, PM 13

Insecticide-Rodenticide Branch Registration Division (H75Q5C)

FROM:

John Tice, Acting Head

Special Review and Registration Section I Occupational and Residential Exposure Branch

Health Effects Division (H7509C)

THRU:

Larry Dorsey, Acting Chief

Occupational and Residential Exposure Branch

Health Effects Division (H7509C)

Please find below, the OREB review of:

HED Project No.: 2-0658

Caswell No.: 652 BB

Pesticide Chemical Code: 109701

EPA Reg. No.:

56783-2

EPA MRID No .:

NONE

Barcode:

D171969

Review Time:

2.5 DAYS

Referred to SACB for risk assessment.

NOTE: This review supersedes/replaces a prior memo dated March 17, 1992. The old memo was found to be inaccurate and is being replaced by this memo. This memo further refines the exposure estimates for children handling Mite Arrest.

I. <u>INTRODUCTION</u>:

EcoHealth, Inc. requested a label amendment to add "Homeowner Use" to the label of their product Mite Arrest. The home owner product will be packaged in 0.5 oz. containers. Mite Arrest is a permethrin-impregnated cotton ball that is placed into pet-rodent cages to control mites. A 0.5 oz container contains 0.037 g ai contained on approximately 47 balls. The use directions suggest using 2 - 3 balls per rodent per week in the cage litter. If the total amount of ai in the container is 0.037 g ai and there are 47 cotton balls in each can the amount of permethrin ai on each ball is 0.00078 g ai or 0.78 mg ai per ball.

OREB has been asked to evaluate the inhalation and dermal exposure to the homeowner from handling the product and from having the product in the home.

II. CONCLUSIONS:

OREB has evaluated the exposure to home owner and finds the exposure from the Mite Arrest use to control mites in pet-rodent cages to be comparable to other accepted uses of permethrin.

III. DISCUSSION:

Exposures to permethrin associated with Mite Arrest are estimated to be comparable to exposures associated with other permethrin uses. Assuming a 9 - 12 year old (35 kg) child changes one cage on a weekly basis, handling 3 cotton balls each week, and being exposed to 100% of the permethrin in the balls. The daily exposure would be:

3 * 0.78 mg AI = 2.3 mg AI * 52 weeks = 121.6 mg ai exposure per year.

Registration of Permethrin for Military Uses (HED Project #9-1356) Memo to G. LaRocca, PM 15, Dated 31 July 1989 estimated an exposure of 0.0056 mg/kg/day or 2.0 mg/kg/yr uncorrected for dermal exposure. Permanone Tick Repellent Exposure Assessment for civilian Uses (HED Project #9-2158), which yielded a child exposure of 2.2 mg/kg/day and 200 mg/kg/yr uncorrected for dermal exposure.

BARCODE D171969 PAGE 3

Assuming that 4 % of the permethrin migrated from the cotton balls to the skin² the yearly exposure would be:

121.6 mg/yr * .04 = 4.86 mg ai/yr exposure.

Assuming a 35 kg child changing the cage, the yearly exposure would be 4.86 mg ai \div 35 kg bw = 0.139 mg/kg/yr).

The daily exposure is then calculated as 0.139 mg/kg/yr \div 365 days/yr or 0.00038 mg/kg/day.

These exposures are not corrected for dermal absorption.

The anticipated dermal exposure is comparable to the anticipated exposures to other approved uses of permethrin.

Inhalation exposure associated with handling 3 cotton balls, collectively containing 2.3 mg of permethrin, is negligible compared to the inhalation exposure associated with the military use. The military use applied 0.8 grams of product 3 - 4 times a year to clothing which was then placed in contact with the body for a year.

cc: Circulation
 Correspondence File
 Chemical File
 Flora Chow, SACB
 John Doherty, (TB-1)

Migration of Permethrin from Impregnated Military Fabrics as Measured in Rabbits, Dated 11/30/88; MRID #407668-13.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460 Report of

OFFICE OF PESTICIDES AND TOXIC SUBSTANCES

MAR 17 1992

MEMORANDUM:

SUBJECT: EXPOSURE ASSESSMENT FOR MITE ARREST, EPA REG # 56783-2

TO:

George LaRocca, PM 13

Insecticide-Rodenticide Branch

Registration Division (H7505C)

FROM:

John Tice, Biologist

Special Review and Registration Section II Occupational and Residential Exposure Branch

Health Effects Division (H7509C)

THRU:

Mark I. Dow, Ph.D., Section Head/ Special Review and Registration Section II Occupational and Residential Exposure Branch

Health Effects Division (H7509C)

Charles L. Trichilo, Ph.D., Chief

Occupational and Residential Exposure Branch

Health Effects Division (H7509C)

Please find below, the OREB review of:

HED Project No .:

2-0658

Caswell No.: 652 BB

Pesticide Chemical Code: 109701

EPA Reg. No.:

56783-2

EPA MRID No .:

Barcode:

D171969

Review Time:

1.5 DAYS

I. INTRODUCTION:

EcoHealth, Inc. requested a label amendment to add "Homeowner Use" to the label of their product Mite Arrest. The home owner product will be packaged in 0.5 oz. containers. Mite Arrest is a permethrin-impregnated cotton ball that is placed into pet-rodent cages to control pest mites. Each cotton ball, weighs approximately 0.3 grams, and contains approximately 0.06 grams of permethrin. If the total package weighs 0.5 oz (14.1 grams). there are approximately 47 cotton balls per container. The total permethrin concentration in a 0.5 oz container would then be approximately 2.8 grams of active ingredient.

OREB has been asked to evaluate the inhalation and dermal exposure to the homeowner from handling the product and from having the product in the home.

II. CONCLUSIONS:

OREB has evaluated the exposure to home owner and finds the exposure from the Mite Arrest use to control mites in pet-rodent cages to be significantly less than other accepted uses of permethrin.

III. <u>DISCUSSION</u>:

Exposures to permethrin associated with Mite Arrest are estimated to be lower than other permethrin uses. Assuming a 9-12 year old (35 kg) child changes one cage on a weekly basis, handling 3 cotton balls each week, and being exposed to 100% of the permethrin in the balls. The daily exposure would be:

- 3 X 0.06 g AI = 0.18 g AI x 52 weeks = 9.3 g/yr exposure.
- 9.3 q / 35 kg person = 26.5 mg/kg/yr exposure

Assuming 70% dermal absorption²:

26.5 mg/kg/yr X 0.70 = 0.186 mg/kg/yr exposure or .00050 mg/kg/day.

¹ Registration of Permethrin for Military Uses (HED Project #9-1356) Memo to G. LaRocca, PM 15, Dated 31 July 1989.

² Figure taken from Toxicology summary derived from U.S. Army Dermal absorption study on rabbits.

March 17, 1992 BARCODE D171969 PAGE 3

This dermal exposure is an order of magnitude less than the exposure calculated for military use of Permethrin on Battle Dress Uniforms. The exposure to homeowners is estimated to be considerably less. With normal handling, it is impossible to come in contact with all the permethrin impregnated in the cotton. Additionally, all the permethrin that is contacted, is not expected to adhere to the skin. Since there are no data for permethrin adhering to the skin, assuming 100% contact and adhesion provides a very conservative estimate of exposure.

Inhalation exposure associated with handling 3 cotton balls, collectively containing 0.18 grams of permethrin, is negligible compared to the inhalation exposure associated with the military use. The military use applied 0.8 grams of product 3 - 4 times a year to clothing which was then placed in contact with the body for a year.

cc: Circulation
Correspondence File
Chemical File
Flora Chow, SACB
John Doherty, (TB-1)

ECO	HEA	ALTH	INC.
)

The Makers of **DAMMINIX** . . . for control of Lyme Disease carrying ticks.

VIA FAX

Ms. Theresa LeMaster Registration Division (H7505C) Environmental Protection Agency Crystal Mall, Building 2 Arlington, VA 22202

Subject: Mite Arrest

EPA Reg. No.: 56783-2

Dear Ms. LeMaster:

As we discussed, the home use version of Mite Arrest will be packaged in a size just under 1/2 ounce, and will be under a separate label "split" from our laboratory product. Total active ingredient will be under .037 oz. for the entire container. Further, the active is bound to the cotton in manufacturing and all volatile compounds driven off in the drying process.

Three labels are enclosed for your review.

Sincerely,

Fred DeFinis President

/enc.

ECOHEALTH, INC.

The Makers of **DAMMINIX** . . . for control of Lyme Disease carrying ticks.

VIA FAX

March 27, 1992

Ms. Theresa LeMaster Environmental Protection Agency Crystal Mall, Bldg. 2 1921 Jefferson Davis Highway Arlington, VA 22202

RE: Product Name: Mite Arrest EPA Registration No.: 56783-2

Dear Ms. LeMaster:

Please call me regarding our pending label amendment (EPA #56783-2). I would like to know if everything is progressing smoothly and when we may expect to receive approval.

Thank you for your help.

Sincerely,

Fred DeFinis President JUN 18 1992

4555419842

MEMORANDUM

SUBJECT: ENFORCEMENT CASE REVIEW REQUEST

OCM/ECR LOG NO. 92-I-09 INSPECTION NO. PJR-9222 Registrant - Ecohealth, Inc.

EPA Reg. No. 56783-2 (Mitearrest)

FROM: George LaRocca, Product Manager 13

Insecticide-Rodenticide Branch Registration Division (H7505C)

TO: Mary McDonnell, HQ Regional Coordinator

Case Support Branch

Compliance Division (EN-342)

As requested, we have reviewed the labeling of the sample product against the last accepted label and determined that directions for use including other label text are acceptable.

cc: Herb Harrison, Chief

Insecticide-Rodenticide Branch

	CONCURRENCES							
SYMBOL								
SURNAME	IML				1 9	Part		
DATE	6/17/92							
							DEELCH	MEILE CORY

EPA Form 1320-1A (1/90)

Team 13) #56783-2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Washington, D.C. 20460

					Date: 3/1//2
TRANSMITTAL	SHEET:				
SUBJECT: E	Enforcement Cas	1 11	ew Request G NUMBER :	92-	I-09
			NUMBER : PJ	-	9222
FROM:	Case Support B	ranch,	Compliance Div	ision	, OCM-OPTS
TO:	Insection	de - Fur cide - 1 ation Su	ngicide Branch Rodenticide Br upport & Emerg	anch ency	
	owing Product				
☐ Re	gistration	П	Content	П	Formulation
П (Device ?)	П	Efficacy	П	Toxicity
I La	beling	П	Claims	П	Advertising
☐ Pa	ckaging	П	Other	-//	1
			Case Officer	M	formell

This review is requested because:



LINITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGIONI

J.F. KENNEDY FEDERAL BUILDING, BOSTON, MASSACHUSETTS 02203-2211

Date: 3//2/	97
MEMORANDU	<u>м</u>
SUBJECT:	Request for Enforcement Case Review: Sample No. Doc. Sample PSF 9222 215/92 Registrant: Ecoherla, Inc. EPA Reg. No. 56783-2
FROM:	Sharlene Speiter Bob Foloyidan Regional Case Development Officer
TO:	HQ Regional Coordinator
This case revio	jacket is being submitted for the following enforcement ew: Labeling K Copy of latest accepted label Tull Review and comment on differences in comparison to label accepted specifically as highlighted on the accepted sample label. Registration status Claims Device Other
Spec discussed	ific comments/details regarding this request are below:

Application Instructions as accepted by Hos?

Please contact me at FTS-835 -9129 if you have any questions.

Attachment: Sample Jacket / X/

PREVIOUS EDITION MAY BE USED UNTIL SUPPLY IS EXHAUSTED

25. SAMPLE COST

 Boston, MA

26 COLLECTION STA 27. COLLECTOR'S NAME (Type) AND SIGNATURE,

Paul J.Ricco

SAMPLE RECORD

U. S. ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF INSPECTION

ORESS (EPA Regional Office) pesticide dge street Boston HOUR

		P.M.
	NAME OF INDIVIDUAL M	Tohnical Director
ì	Moder L. Millionia	
	Shield Parkaging Company	Peter Street, City, State and Zip Code) Peter Street P.O. Box 729 websty, ma 01570
	SIGNATURE OF EPA EMPLOYEE FALL J MM	webster, ma 01570 508-949-0900 TITLE Sup Inspecta
	REASON FOR INSPECTION	

FOR THE PURPOSE OF INSPECTING AND OBTAINING SAMPLES OF ANY PESTICIDES OR DEVICES PACKAGED, LABELED, AND RELEASED FOR SHIPMENT, AND SAMPLES OF ANY CONTAINERS OR LABELING FOR SUCH PESTICIDES OR DEVICES, IN PLACES WHERE PESTICIDES OR DEVICES ARE HELD FOR DISTRIBUTION OR SALE (Sec. 9 (a) and 12 (a) (2) (B)).

FOR THE PURPOSE OF INSPECTING AND OBTAINING COPIES OF THOSE RECORDS SPECIFIED IN SECTION 8 AND 40 CFR PART 169. (Sec. 8 and 12(a)(2)(B)).

VIOLATION SUSPECTED:

possible production and distribution of peticides which have been cancelled

Section 8, 9(a) and 12(a)(2)(B) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended (7 U.S.C. 136 et seq.) are quoted on the reverse of this form.



RONMENTAL PROTECTION AGENCY

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Postic						
(o) B	Ce	umk	nid.	نو خ	量に	
B	5	un,	hus	C	22	5
DATE	770	-				Die C

RECEIPT FOR SAMPLES	Boston, Ma 02202
Mary PROTECTO	DATE 2-5-92
ROBERT L. M. (ollow.	transcal director
SHIELD PACKAGING COMPANY, lug : 5 508-949-0900	ADDRESS (Street, City, State and Zip Code) PETER STREET WERSTER, WA a 570
Ph 9272/ MR 9771	2-1-92 19/2
The following samples were collected by the U.S. Environment of the Federal Insecticide, 136 g). This section is quoted on the reverse of this form.	onmental Protection Agency and receipt is hereby acknow- , Fungicide, and Rodenticide Act, as amended (7 U.S.C.
Dec. Miteauest sibs	FPA Res 56797 - 2
Dec Indoe fosse 5:07	FPA FST 5647-61-3546 1 PA FST 2673-61-3546
1)oc Home i (carden 12 egly)	EpA FIL 5693-46-3546
ACKNOWLEDGMENT OF PRODUCER/REGISTRANT The undersigned acknowledges that the samples shown above were obtained from pesticides or devices that were packaged, labeled, and released for shipment.	
SIGNATURE (Owner, Operator, or Agent)	TITLE (Owner, Operator or Agent)

EPA Form 3540-3 (Rev. 8-75)

DUPLICATE SAMPLES
REQUESTED AND PROVIDED

PAUL J. R((O

AMOUNT PAID FOR SAMPLES

PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED.

DEPLICATE SAMPLES

CASH

TITLE OF COLLECTOR

NSPECTOR

SAMPLES WERE

PURCHASED

VOUCHER

SAMPLE RECORD COPY

TO BE BILLED

BORROWED

SIGNATURE OF COLLECTOR

VISIT . ESTABLISHMENT INSPECTION REPORT 2. REGION NO. 01/MA 3. INSPECTOR NO. 2018 4. DATE OF VISIT 2-5-92 6. ESTABLISHMENT NAME AND ADDRESS (Including Street, city, etate, ZIP code, county and phone number) 7. RELATED FIRMS Shield Packaging Company, Inc. Shield Packaging Company, Inc. Peter Street 1565 G Street P.O. Box 729 Chino, CA 91710 Webster, MA 01570 (508) 949-0900 8. TYPE OF ESTABLISHMENT 10b. PERCENT PESTICIDES 1 - 2% 9. TYPE OF OWNERSHIP 10a. TOTAL ANNUAL SALES Producer Corporation 6 - 7million

11. NAMES AND TITLES OF OF PRINCIPAL OFFICERS, PARTNERS OR OWNERS

George Bates , President Lou Scagzie , Executive Vice President Bruce Simpson , Vice President Operations

PERSONS INTERVIEWED (Give name, title, phone number and responsibility)

Robert McCollum - Technical Manager Ian Copland - Administrative Manager

PHYSICAL SAMPLES COLLECTED		13b.	13c. LABELS REVIEWED WITHOUT SAMPLES	
EPA REGISTRATION NO.	SAMPLE NO.	EPA REGISTRATION NO.	SAMPLE NO.	EPA REGISTRATION NO
56783-1	PJR 9205	3546-27	PJR 9210	572-321
3546-27	PJR 9206	5693-46-3546	PJR 9211	8590–598
546-28	PJR 9207	4816-508-3546	PJR 9212	8590-479
7176-12	PJR 9208	5693-61-3546	PJR 9213	2347-9
2347-9	PJR 9209	5693-61-3546	PJR 9214	2398-7
		5693-76-3546	PJR 9215	2398-7
		5693-46-3546	PJR 9216	

4. REMARKS

DOCUMENTARY SAMPLES (Continued)

3546-27 PJR 9217 5693-61 PJR 9223 5693-46 PJR 9218 5693-46 PJR 9224 3546-27 PJR 9219 4186-508 PJR 9220 7176-6 PJR 9221 56783-2 PJR 9222

15. SIGNATURE OF INSPECTOR

Boston, MA Terl Meles

For Laboratory, Commercial or Veterinary Use

EPA Reg. No. 56783-2

EPA Est. No. 5693 MA 1

Permethrin impregnated cotton bedding to control mite infestations on laboratory rodents.

ACTIVE INGREDIENTS:

+* permethrin......7.4% 100.0%

+(3-phenoxyphenyl methyl (+/-) cis/trans 3-(2-dichloroethenyl)-2,2-dimethyl cyclopropane-carboxylate

*Cis/trans ratio: Min. 35% (+/-) cis and max. 65% (+/-) trans

KEEP OUT OF REACH OF CHILDREN CAUTION

Statement of Practical Treatment IF SWALLOWED - Contact a physician or Poison Control Center immediately.

IF ON SKIN - Remove contaminated clothing and wash affected areas with plenty of soap and water. IF IN EYES - Flush eyes with plenty of water. Call a physician

if irritation persists.

See additional precautionary statements

Net Weight .5 lbs.

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MITEARREST®

INSECTICIDAL BEDDING FOR LABORATORY RODENTS

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

APPLICATION INSTRUCTIONS

Place MITEARREST bedding directly in rodent cage to be treated. Use 2-3 MITEARREST balls per week for each rodent. Avoid wetting the MITEARREST bedding; to prevent cage flooding, care should be taken to place MITEARREST bedding away from the water bottle spout. Replace soiled MITEARREST bedding; it is recommended that fresh MITEARREST bedding be added weekly, at the time when other bedding is changed. Continue using the product for four to six weeks, or until mites or their eggs are no longer present in the fur of rodent. As mite eggs are not affected by this treatment, extended use of the product (until all eggs have hatched or are no longer present) will provide greater long-term control and prevent reinfestation.

STORAGE AND DISPOSAL

Store at room temperature. Do not contaminate water, food or feed by storage or disposal. Unused or soiled MITEARREST bedding is biodegradable and may be disposed of with other bedding (such as wood chips, shavings, etc.) or refuse. Soiled MITEARREST bedding may be autoclaved or incinerated.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

Avoid contact with eyes and skin. Chronic exposure to skin may cause dermal irritation or tingling. Wash thoroughly with soap after handling.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. Do not contaminate water by disposal.

NOTE:

This product contains a pyrethroid insecticide which the caged animal may ingest or come into dermal contact with.

Researchers should consider the possible effects of contact with this insecticide before using this product.

U.S. Patent No. 4,662,104

EcoHealth, Inc. (617) 742-2400 110 Broad Street, Boston, MA 02110

For Laboratory, Co

De Sample



EcoHealth, Inc.

110 Broad Street Boxton, MA 02110

617/#42-2400 fax/350-6260

Fax Cover Letter

Date: 3-16 92 Time: 2:35

To/Company: EPA

Attention: Ms Thereson LeMaster 703 305 6596

From: Fred Defin is

Including this cover sheet, there are -\$

pages in this transmission.

Attached Documents:

Comments

These are transmitted as checked: | | For review and comment

Our Fax # is 617/350-6260 If you have any problems or questions, please call 617/742.2400

Mar 16,92 14;25 No.004 P.01

Hresko Assoc/EcoHealth TEL No.617-350-6260

ECOHEALTH, INC.

The Makers of DAMMINIX . . . for control of Lyme Disease carrying licks.

VIA FAX

Ms. Theresa LeMaster Registration Division (117505C) Environmental Protection Agency Crystal Mall, Building 2 Arlington, VA 22202

Subject: Mite Arrest

EPA Reg. No.: 56783-2

Dear Ms. LeMaster:

As we discussed, the home use version of Mite Arrest will be packaged in a size just under 1/2 ounce, and will be under a separate label "split" from our laboratory product. Total active ingredient will be under .037 oz. for the entire container. Further, the active is bound to the cotton in manufacturing and all volatile compounds driven off in the drying process.

Three labels are enclosed for your review.

Sincerely,

Fred DeFinis President

Jul 122-

/enc.

110 Broad Street, Boston, Massachusetts 02110 Telephone: (617) 742-2400 Fux: (617) 350 6260

Mar 16,92 14:25 No.004 P.02

Hresko Assoc/EcoHealth TEL No.617-350-6260

INSECTICIDAL BEDDING FOR RODENTS



FOR HOME PET USE

EPA Reg No. 56783-2 EPA Est. No. 5693 MA 1 Permethiln impregnated cotton bedding to control mite infestations on laboratory rodents.

ACTIVE INGREDIENTS

+1 permethin 100.0%

*(3 phonoxyphonyl mothyl (+/-) dis/trans 3-(2-dichloroetheny()-2,2-dimethyl dydlopropane darbaxylafu *Cls/trans ratio Min. 35% (+/-) als and max. 65% (+/-) fram

RELITED OF DESCRIPTION OF

Statement of Practical treatment # \$90AU CSVID - Contact is physicism or Politics

Center immediately

If ON SKIN - Remove contaminated clothing and wast
offedred areas with plenty of scap and waste.

If IN EYES - Fush eyes with plenty of water. Call a physician if unfation persists.

See additional precautionary statements

DIRECTIONS FOR USE

I is a violation of Federal law to use this product in a

Place MITEARMEST bedding directly in rodent sage to be freated. Use 2-3 MITEARMEST balls per week for worth radion. Avoid watting the MITEARMEST beginning to provent cage flooding, care should be taken to place.
MITEARREST boolding away from the water bottle spour.
Replace solled MITEARREST bedding: It is recommended. that that MITEARREST bedding be added weekly, at this time when office bodding is changed. Continue using the product for four to six weeks, or until miles or their eggs are no longer present in the fur of toctent. As mile eggs are not affected by this treatment, extended to the practical funtil all eggs have hatched or one to longer prosent) will previde greater long-term control and provent rainfestration.

STORAGE AND DISPOSAL

Store at room temperature. Do not contaminate water. food or feed by storage or disposal. Unused or soiled MITEARREST bodding is biodogradable and may be alls poted of with alloo bodding (such as wood chips, showings, ptc.) or roluse. Solled MHEARREST bedding may be autoclaved or incinerated.

PRECIALIBONARY STATEMENTS

HAZAROS IC HUMANS A BIOMESTIC ANIMALS.
Avoid contact with eyes and Ikin. Chippic exposure to skin may cause dermal initation or lingling. Wash thoroughly with soop after brandling.

ENVIRONMENTAL +AZARDS

this product a extremely taxic to fish. Do not contami-nate water by disposal

this product collitains a pyrothroid insecticide which the caged deimal may injest or come into deimal contact with Researchers should consider the possible effects of contact with this insecticide before using this product.

U.S. Pater I No. 4,662 104

EcoHealth, Inc., (617) 742-2400 110 Broad Street, Boston, MA 02110 eight .5 oz Net.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

FEB | 0 1992

OFFICE OF PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Registration of the Product Mite Arrest Insecticidal

Bedding for Laboratory Rodents and for use by

Homeowners

TO: Theresa LeMaster/George LaRocca, PM-13

Registration Division (H7505C)

FROM: Flora Chow, Chemical Manager 4 Chow 4 Felo 92

Reregistration Section

Science Analysis and Coordination Branch

Health Effects Division (H7509C)

THROUGH: William Burnam, Acting Chief WOV &

Science Analysis and Coordination Branch

Health Effects Division (H7509C)

HED Project No.: 2-0658

Caswell No.: 652BB

Action: 305 Technical label

Please find, attached to this memo, the TB-I review of the label change with respect to the registration of the product Mite Arrest.

TB-I is recommending that OREB evaluate the potential inhalation exposure from the use and storage of this product. I am issuing an HED intra-bean to OREB requesting such a review; the OREB review will be forwarded to you separately.

21/0/92 12/5/91

DP BARCODE: D171969

CASE: 027678 SUBMISSION: S407829 DATA PACKAGE RECORD BEAN SHEET

DATE: 12/04/91 Page 1 of 1

LABEL: Y

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: REGISTRATION

ACTION: 305 TECH-LBL REV AMND DATA RE

CHEMICALS: 1309701 Permethrin

07.4000%

ID#: 056783-00002 MITE ARREST

COMPANY: 056783 ECOHEALTH, INC. PRODUCT MANAGER: 13 GEORGE LAROCCA 703-305-6100 ROOM: CM2 703-305-5418 ROOM: CM2 202 PM TEAM REVIEWER: THERESA LEMASTER

RECEIVED DATE: 11/22/91 DUE OUT DATE: 02/20/92

* * * DATA PACKAGE INFORMATION * *

DP BARCODE: 171969 EXPEDITE: N DATE SENT: 12/04/91 DATE RET.:

CHEMICAL: 109701 Permethrin

y non

DP TYPE: 001 Submission Related Data Package

ADMIN DUE DATE: 01/18/92 DATE IN ASSIGNED TO DATE OUT

IV : HED BRAN: SACB SECT: RS REVR : CONTR:

* * * DATA REVIEW INSTRUCTIONS * * *

305 - 7398 ATTN: FLORA CHOW

PLEASE COMMENT ON PROPOSED LABEL AMENDMENT TO INCLUDE "HOMEOWNER" USE OF THIS PRODUCT.

LAST HED REVIEW (APR 19, 1990 - COPY ENCLOSED) WAS MADE IN REFERENCE TO LABEL WHICH LIMITED USE OF THIS PRODUCT TO "COMMERCIAL/VETERINARY USE ONLY" (COPY ENCLOSED) .

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC BRANCH/SECTION DATE OUT DUE BACK

Marc Dow 305- 3533 Spoker to see who see to minimum to see who so to see to minimum to see to the sound to see to the sound to see to the sound to see to see to see to see to see the see of the see

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

JAN 23 1992

PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT:

EPA Id. No.: 056783-00002. Permethrin: Registration of the product Mite Arrest

Insecticidal Bedding for Laboratory Rodents and

for use by homeowners.

TOX CHEM No.: 652BB

PC No.: 109701

TOX PROJECT No.: IN-0305 HED PROJECT No.: 2-0658 Submission No.: S407829

FROM:

John Doherty John Sole Section IV, Toxicology Franch I

Health Effects Division (H7509C)

TO:

Flora Chow, Ph.D. Chemical Manager

Science Analysis and Coordination Branch

Health Effects Division (H7509C)

THROUGH:

Marion Copley, DVM, Section Head

Section IV, Toxicology Branch I Health Effects Division (H7509C)

I. CONCLUSION

Toxicology Branch considers that the toxicity data requirements necessary for the registration of this product for either laboratory or homeowner use have been met and has no objections to the proposed registrations. The use of the product, however should be evaluated by Occupational and Residential Exposure Branch to determine the inhalation exposure resulting from the use and storage of this product.

II. Action Requested

Ecohealth, Inc. has responded to the request for a specific label change made previously by Toxicology Branch (Hed Project No. 0-0693, memo dated April 19, 1990). In addition the company is now requesting that their product Mite Arrest be used

by homeowners to control mites in pet rodent cages.

III. Toxicology Branch Comments

- 1. The registrant has revised the product label to include the precaution to researchers that the product contains a pyrethroid insecticide and that the possible effects of the presence of this insecticide should be considered before using the product.
- 2. The proposed use of this product should be reviewed by the Occupational and Residential Exposure Branch to determine the exposure resulting from the use and storage of this product in animal care facilities to individuals involved with animal care and to pet owners who may use this product in homes.

Although frequent air changes are a GLP requirement, some animal rooms have many animal cages within and each of these may have the product. Significant quantities of unused product may also be stored in the animal rooms. Thus the animal handlers and researchers may be exposed to significant quantities of permethrin. A homeowner may keep a pet rodent in a room with less frequent air changes and the product in the animal cage and in the storage package may volatize about the room. The pet owner may spend long hours in the same room especially if the room is a bedroom.

3. A copy of the Free Standing Toxicity Profile for PErmethrin is attached.

FREE STANDING TOXICITY SUMMARY - PERMETHRIN

Toxicity Data Base: Chemical: Permethrin Data provided jointly from the FMC and ICI Corporations, the Burroughs-Wellcome Co and/or the US Army.

Tox Chem Number: 652BB

PC Number: 109701

Edition: October 22, 1991

Series. Study Type Ava	Study ailabl	Comment on study or e significant finding	Document Number
81-1. Acute oral - rats	A	Tox. Cat. III-IV	1570
81-2. Acute Dermal - rabbits	A	Tox. Cat. IV	1570
81-3. Acute inhalation - rats	A	Tox. Cat. IV	5/10/ 76
81-4. Primary eye - rabbits	A	Tox. Cat. IV	1570
81-5. Primary dermal - rabbits	A	Tox. Cat. IV	1570
81-6. Dermal sensitization - guinea pig	A	Not a sensitizer (U.S.Army study).	7624
81-7. Delayed neurotoxicity - hen	No	Not applicable	·
81-8. Special neurotoxicity - rat	No	Requirement pending. See also 82-7.	
82-1a. Subchronic oral - rodent	3	NOEL/LEL = 100/500 ppm. Liver effects. NOEL = 20/100 ppm. Liver effects. NOEL/LEL = 20/100 ppm. Liver effects.	
82-1b. Subchronic oral - nonrodent	A	NOEL/LEL = 50/364 mg/kg/day (capsule). <u>CNS</u> activity, <u>liver</u> and <u>body weight</u> effects.	
82-2. 21-day dermal	A	NOEL = 1.0 gm/kg/day (HDT). U.S. Army study.	1570
82-3. 90-day dermal	No		

82-4. 90-day inhalation - guinea pig	S	NOEL > 500 ug/l/day (HDT)	1570
90-day inhalation - dogs	s	NOEL > 500 ug/l/day (HDT)	
90-day inhalation - rat	s	NOEL/LEL = 250/500 ug/l/day. Tremors, convulsions, liver effects.	
		All are U.S. Army studies.	
82-5. 90-day neurotoxicity - hen	No	Not applicable.	
82-6			
82-7. Neurotoxicity screen rats Special study to assess for particular pyrethroid	S	NOEL/LEL 100/200 mg/kg/day. Increased irritability. Possible morphological changes at 400 mg/kg/day.	5946
neurotoxicity. Note: new Guidelines require additional study types.		No morphological lesions at 600 ppm (21 days feeding). NOEL < 4000 ppm for tremors, deaths at 9000 ppm.	8163
83-la. Chronic feeding - rat		See 83-5.	
83-1b. Chronic feeding - nonrodent	2	NOEL/LEL = 5/100 mg/kg/day (capsule). <u>Liver effects</u> .	3403
		NOEL > 250 mg/kg/ay (HDT).	
82-2a. Oncogenicity - rat		See 83-5.	
82-2b. Oncogenicity - mouse [3 studies considered accept-	A	NOEL/LEL = 100/250 ppm. Liver effects.	
ible, one considered invalid]		NOEL/LEL = 20/500 (males) and 2500/5000 ppm (females). Liver effects. Positive for lung and liver tumors.	·
		NOEL \geq 250 mg/kg/day (HDT). Considered positive for lung tumors at 250 mg/kg/day.	8163
83-3a. Developmental toxicity - rat	A	NOEL/LEL = 50/150 mg/kg/day for both maternal and developmental toxicity (decreased fetal weight).	8344

83-3b. Developmental toxicity - rabbit	A	Maternal toxicity LEL < 600 mg/kg/day (equivocal body weight gain). NOEL/LEL for developmental toxicity 600/1200 mg/kg/day.	8344
83-4. Multi generation reproduction - rat	2	NOEL < 500 ppm. <u>Liver</u> <u>effects</u> in pups. BOdy tremors in parents at 1000 and 2500 ppm and in pups at 2500 ppm.	
		NOEL > 180 mg/kg/day (HDT).	8163
83-5. Combined chronic/onco - rat	3	NOEL < 500 ppm. <u>Liver</u> effects.	
		NOEL/LEL = 20/100 ppm. <u>Liver</u> <u>effects</u> . Equivocal for lung adenomas.	
·		NOEL/LEL = 10/50 mg/kg/day. Liver effects.	8163
84-2. Gene mutation	A	Ames test: Not mutagenic	
84-2. Chromosome aberration	No		
84-2. Other mechanism genetic toxicity.	No	Unscheduled DNA systhesis: Not mutagenic	8761
85-1. Metabolism - rata and	A	Several studies define	1660
dogs.		absorption, excretion and retention of labelled permethrin.	7524
85-2. Domestic animal safety		See formulations.	
85-3. Dermal Absorption - rabbits	s	[U.S. Army study indicates 30-70% absorption.]	
85 Nerve function/operant behavior	No	Requirement pending	

A = Acceptable study satisfies the data requirement. S = a SUPPLEMENTARY study containing useful information is available but additional data are required. Number = more than one ACCEPTABLE study containing useful information has been presented. No = no acceptable or useful study has been provided.

Consult DER for additional details. Only significant toxicity at the LEL

is presented.

The document number for the DER is given but in some cases when no document number is available the date of the review is given. If no date or

document number, consult the one liners for further study identification.

Special Toxicology Issues and Problems.

1. <u>Labelling</u>. There are no specific labelling and precautionary statements required based on the toxicity of technical permethrin. The label signal word and precautionary statements should be governed by the toxicity studies with the formulations.

2. Carcinogenicity.

The HED Peer Review Committee classified permethrin (as of September 18, 1989) as a Group C carcinogen (possible human carcinogen) and recommended that quantitative risk assessments be performed based on the FMC mouse study using the dose-related increase in combined lung adenomas and/or carcinomas observed in females.

The Q_1* based on the FMC mouse study for lung and liver tumors is 1.84 x 10 -2 (mg/kg/day).

3. <u>RfD</u>.

The RfD approved by the Agency RfD Committee is 0.05 mg/kg/day based on the FMC 2-year rat feeding study with a NOEL of 5 mg/kg/day and a safety factor of 100.

4. Non carcinogenic risk assessment.

There are no other specific toxicity endpoints besides carcinogenicity and RfD as indicated above.

5. <u>Mutagenicity/genetic toxicity comments</u>.

The mutagenicity/genetic toxicity data base is considered incomplete and is being revised and updated.

6. <u>Dermal penetration</u>.

The U.S. Army has submitted a study which indicates 30 - 70% of permethrin may be absorbed through rabbit skin. This study is considered SUPPLEMENTARY and additional data are required to better establish the rate of permethrin through the skin. According to Robert Zendzian, pharmacologist HED, the dermal penetration factor of 3 to 7% is currently recommended for estimating human absorption of permethrin. This is based on human skin being about 1/10 as permeable as rabbit skin.

Report of Analysis for Compliance with PR Notice 86-5 76 and 150k

Thank you for your transmittal of 02/13/92
has completed a preliminary analysis of the provided as follows: The results are 0 Mocun -

We are unable to accept your data submittal for further processing and review, because of the significant deficiencies noted below. It is being returned to you for correction. If deficiencies were found which apply to your overall submission, they are described immediately following this paragraph. If problems found with individual studies, they are described below linked to the study identifier found on the enclosed copy of your bibliography.

You provided fewer than the required three complete copies of submitted data. In the future, be sure to submit the full number of required copies.

Rejected study [01] :

You must include one of the two acceptable statements of data confidentiality claims under FIFRA section 10(d)(1)(A), (B), or (C) as the second element in each study. The language of two alternative forms of the Statement of Data Confidentiality Claims, shown in Attachment 3 of PR Notice 86-5, cannot be altered. pages 8 and 13 of the Notice.

A statement of compliance or non-compliance with the Good Laboratory Practices Standards contained in 40 CFR160 is required for all studies (except range finding studies and supplements to previously submitted studies) submitted to EPA. This statement must appear as page 3 of all studies, and must be signed and dated by the study sponsor, the study submitter, and the study director. Please see 40 CFR 160.12 for specific guidance.



January 31, 1992

Mr. George LaRocca RM 13
Registration Division (H7505C)
Environmental Protection Agency
Crystal Mall, Building 2
Arlington, VA 22202

Subject: Mite Arrest

EPA Registration No.: 56783-2

Dear Mr. LaRocca:

At the suggestion of Theresa LeMaster, I have enclosed some dermal irritation data to Rejected (4) support our Amendment (Application #138534) currently pending. Please foward this to Ms. LeMaster so that she can combine it with our application.

Thank you for your help.

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Sincerely,

Fred DeFinis President

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November 12, 1991

Mr. George LaRocca, PM #13 Registration Division (H7505C) Environmental Protection Agency Crystal Mall, Bldg. 2 Arlington, VA 22202

Subject: MITEARREST

EPA Registration No.: 56783-2

Dear Mr. LaRocca:

As requested in the October 30, 1991 letter from Edith Minor (enclosed) I am sending you 5 copies of draft labeling to support our request for amendment. I have also resubmitted the entire package for your review.

In order to avoid further confusion, I will call you to be sure that our package is complete and meets your requirements.

Thank you for your help.

Sincerely,

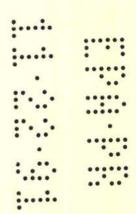
Fred DeFinis President

Frul 122

/enc.

Certified Mail

Return Receipt No.: P 655 440 080



EARRES



For Laboratory, Commercial, Veterinary or Home Pet Use Only

EPA Reg. No. 56783-2 EPA Est. No. 5693 MA 1 Permethrin impregnated cotton bedding to control mite infestations on laboratory rodents.

ACTIVE INGREDIENTS:

+* permethrin	7.4%
INERT INGREDIENTS:	92.6%
Total	100.0%
+(3-phenoxyphenyl methyl (+/-) cis/	trans 3-(2-

dichloroethenyi)-2.2-dimethyl cyclopropane-carboxylate

*Cls/trans ratio: Min. 35% (+/-) cis and max. 65% (+/-) trans

KEEP OUT OF REACH OF CHILDREN

CAUTION Statement of Practical Treatment IF SWALLOWED - Contact a physician or Polson Control Center Immediately.

IF ON SKIN - Remove contaminated clothing and affected areas with plenty of soap and water. IF IN EYES - Flush eyes with plenty of water. Call a physiclan if irritation persists.

See additional precautionary statements

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

APPLICATION INSTRUCTIONS

Place MITEARREST bedding directly in rodent cage to be treated. Use 2-3 MITEARREST balls per week for each rodent. Avoid wetting the MITEARREST bedding: to prevent cage flooding, care should be taken to place
MITEARREST bedding away from the water bottle spout, Replace soiled MITEARREST bedding; It is recommended that fresh MITEARREST bedding be added weekly, at the time when other bedding is changed. Continue using the product for four to six weeks, or until mites or their eggs are no longer present in the fur of rodent. As mite eggs are not affected by this treatment, extended use of the product (until all eggs have hatched or are no longer present) will provide greater long-term control and prevent reintestation.

STORAGE AND DISPOSAL

Store at room temperature. Do not contaminate water, food or feed by storage or disposal. Unused or soiled MITEARREST bedding is biodegradable and may be disposed of with other bedding (such as wood chips, shavings, etc.) or refuse. Solled MITEARREST bedding may be autoclaved or incinerated.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS Avoid contact with eyes and skin. Chronic exposure to skin may cause dermal irritation or tingling. Wash thoroughly with soap after handling.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. Do not contaminate water by disposal.

This product contains a pyrethroid insecticide which the caged animal may ingest or come into dermal confact with. Researchers should consider the possible effects of contact with this insecticide before using this product.

U.S. Patent No. 4,662,104

(617) 742-2400 EcoHealth, Inc., 110 Broad Street, Boston, MA 02110



· UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

October 30, 1991

OFFICE OF PESTICIDES AND TOXIC SUBSTANCES

Mr. Fred DeFinis President EcoHealth, Inc. 110 Broad Street Boston, MA 02110

Dear Mr. DeFinis:

You were recently sent an acceptance letter for registration of your product "Mite Arrest", application number 138534, dated October 14, 1991. That acceptance letter was based on a preliminary screen for completeness.

After further review of your request by Mr. George LaRocca, Product Manager, Team 13, your request was found to be deficient and is being returned to you.

You did not submit five copies of draft labeling. No further action on your request can be taken until you bring it into compliance with Agency regulations.

If you need additional information or have any questions, please contact Mr. LaRocca on (703-557-2400).

Sincerely,

Edith Minor, Team Leader Front End Processing Staff Registration Support Branch

Registration Division 147504C

TO FILE ROOM	
TO PRODUCT MANAGER	/3
NATE:	11-26-91

FAST - TRACK ACTION

This action has been determined to be a fast-track action by FEPS and <u>must</u> be entered in the PRATS using one of the following codes:

- 160 Application for "me-to" registration
- 170 Application for registration old chemical "Me-too" with additional use.
- tuto 300 Amendment label revision administrative (no data required).
- HGO 305 Amendment label revision data required does not need HED/EFED review.
 - 310 Amendment added "me-too" Use no HED/EFED review needed.
 - 345 Formula change no HED/EFED review required.

11/25/91

ECOMEALTH, INC. 33 MT. VERNON STREET BOSTON MA 02108

Product Name: MITE ARREST Company Name: ECOHEALTH, INC. Application No.: 138534 EPA Reg. No.: 56783-2 EPA Receipt Date: 11/22/91

Subject: Front End Screen for an Amendment

Dear Sir or Madam:

Your application for registration has been received by the Office of Pesticide Programs and has passed a preliminary screen for completeness. It will be placed in line for review to determine its acceptability. The application will be processed in chronological order of receipt.

Although the 1988 FIFRA amendments mandate EPA to review applications for expedited registration or amendments within 98 days, this turnaround time will not be met immediately due to the backlog of applications received before December 24, 1988. However, EPA is increasing human and automated resources and making necessary procedural changes in order to eliminate the backlog and to meet the 98-day response time as soon as possible.

If you have any questions, you may contact George LaRocca, Product Manager 13, at (703)-557-2400.

Sincerely,

Team Leader

Front End Processing Staff Registration Support Branch Registration Division (H7504C)

ECOHEALTH, INC.

October 15, 1991

Mr. George LaRocca, PM #13 Registration Division (H7505C) Environmental Protection Agency Crystal Mall, Bldg. 2 Arlington, VA 22202

Subject: Mite Arrest

EPA Registration No.: 56783-2

Dear Mr. LaRocca:

Enclosed please find an application for label amendment for the above referenced product and if necessary, authorization to access Fairfield American Corporation's data.

Please feel free to contact me if additional information or materials are necessary.

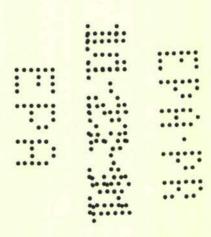
Thank you for your attention to this matter.

Sincerely,

Fred DeFinis President

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/enc.





OFDA	United Of	States Environmenta fice of Pesticide Prog Washington, DO	grams (TS-767) 20460		OPP Identifier Number
\$EPA	Application	for Pesticio		egistration nendment	138534
		Section	1	The state of the s	06.2090 (P.S.O. 1981) 1.2 i
1. Company/Product Number	2. Date	1001	3. Product Man		4. Proposed Classification Restric-
56783-2 5. Name and Address of Applicant (Inc.)	August 2	26, 1991	George	LaRocca	X General Restricted
EcoHealth, Inc. 110 Broad Stree Boston, MA 0211	et	To and the second secon	a borthan a la		
Check if this is a new address Display the control of the control				is not to pergo or a	
MITE ARREST	MARC DESCRIPTION		historius miles		BARRIE T
I. Subject	Secti	on II - Amendme	ent Information	on	Date of Letter
Resubmission in response to Agency letter	Final printed	label to Agency letter	V Other (ex	xplain below)	A STATE OF LOTTER AND
		Section	III	The second second	
1. Material This Product Will Be Package		The same of the sa	REAL PROPERTY.	and a state of the second	2. Type of Container
Child-Resistant Packaging	Unit Packaging		Water-Soluble		Metal
Yes V No	Yes X	No	Yes	K No	Plastic Glass
Tes Živo		No. per container	Package weigh	No. per container	X Paper Other (Specify)
3. Location of Net Contents Information			No age of Views	and wheel the train	
X Label Container	.5 oz.	.5 lb.	2.4	2.5 lb.	
5. Location of Label Directions		6. Manner in Which			BARRATE DI USA
X On Label		X Lithograph Paper glued		Other (Specify)	
On material accompanying prod	luct	Stenciled	wat of a		
		Section	IV and the	Carlo Borney	had some and the
1. Contact Point (Complete items d	lirectly below for idea	ntification of individua	al to be		楼。
Name Fred DeFinis	ssary, to process thi	s application).			inh
Title President			Telephone No. 617-74:	(Include Area Code) 2-2400	6. Date Application Receive (Stamped)
I certify that the statements I ha complete. I acknowledge that an	ve made on this for	fication orm and all attachm or misleading stater	ents thereto are nent may be p	true, accurate, and unishable by fine or	1
imprisonment or both under applic	cable law.		CHARLES DEPARTMENT OF		
2. Signature	cable law.		3. Title		
	cable law.		HE IA BUILD	TATE OF THE PARTY	
2. Signature	cable law.		3. Title PRESIDE 5. Date Signed	70072	

Instructions

General

This form is to be used for all applications for new and amended registrations for pesticide products.

In order to process an application for new registration submitted on this form, the following material must accompany the application:

- Offer to Pay Statement (EPA Form 8570-22, -23, or -24). (If not exempted by 40 CFR 162.9-1(b).)
- 2. Confidential Statement of Formula (EPA Form 8570-4).
- 3. Five copies of draft labeling.
- 4. Three copies of any data submitted.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8 1/2 x 11 inch paper or as a mockup of the proposed label. If prepared as a mockup it should be constructed in such a way as to facilitate storage in an 8 1/2 x 11 inch file. Mockup labels significantly smaller than 8 1/2 x 11 inches should be mounted on 8 1/2 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in three copies. In order to facilitate review, each type of data submitted must be bound separately, and clearly identified on the front cover including the date submitted.

A copy of the application form and a copy of the label should be bound in each separate volume of the data.

All Data For Which Claims of Confidentiality Are Asserted Must Be Submitted, Bound Separately and Clearly Marked As Such

Specific

Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Section I, III, and IV must be completed by the applicant. For applications submitted in connection with amended registration actions, Sections I, III, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

Section I - This Section must be completed for both Registration and Amended Registration actions.

- Company/Product Number Insert your company number, if one has been assigned. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If application is for an amendment, insert the registration number of the product.
- 2. Date Fill in the appropriate date.
- 3. Philo Manager If known, fill in the name and number of the Product Manager.
- 4. Proposed Classification Specify the proposed classification for this produce.
 - Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom registration will be issued. If you are acting to behalf of another party, you must submit authorization from that party to act for them in registration mat-
 - An applicant Not residing in the United States must have an authorized agent residing in the United States to act for

them in all registration matters. The name and complete mailing address of such an agent must accompany this application.

6. Product Name - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.

Amendment Information

Section Π - This Section must be completed for all applications submitted in connection with Amended Registration.

 Subject of Amendment - Check the appropriate block, and provide a brief explanation of the purpose(s) for the amendment, such as: "the addition of a site, pest, or crop"; "to change inert ingredient"; "general label revisions of precautionary statements," etc.

Packaging and Container Information

Section III - This Section must be completed for all applications submitted in connection with New Registration.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- Type of Retail Container Indicate type of container in which product will be marketed.
- Location of Net Contents Specify the net contents of all retail containers for your product.
- Size(s) of Retail Container Specify the net contents of allretail containers for your product.
- Location of Use Directions Indicate the location of the use directions for your product.
- Manner in which label is affixed to product Indicate the method product labeling is attached to retail container.

Contact Point

Section IV - This Section must be completed for all Registration and Amended Registration applications.

- 1-5. Self-explanatory.
- EPA Use Only.

EPA Form 8570-1 (Rev. 4-88) Reverse

INSECTICIDAL BEDDING FOR LABORATORY RODENTS



For Laboratory, Commercial or Veterinary Use Only

EPA Reg. No. 56783-2 EPA Est. No. 5693 MA 1 Permethrin impregnated cotton bedding to control mite infestations on laboratory rodents.

ACTIVE INGREDIENTS: +* permethrin. 7.4% 92 6% 100.0% Total

henoxyphenyl methyl (+/-) cis/trans 3-(2-proethenyl)-2,2-dimethyl cyclopropane-carboxylate Cis/trans ratio: Min. 35% (+/-) cis and max. 65% (+/-) trans

KEEP OUT OF REACH OF CHILDREN

CAUTION
Statement of Practical Treatment IF SWALLOWED - Contact a physician or Poison Control Center immediately. ON SKIN - Remove contaminated clothing and wash

affected areas with plenty of soap and water IF IN EYES - Flush eyes with plenty of water. Call a physiclan if irritation persists

See additional precautionary statements

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

APPLICATION INSTRUCTIONS
Place MITEARREST bedding directly in rodent cage to be treated. Use 2-3 MITEARREST balls per week for each rodent. Avoid wetting the MITEARREST bedding: to pre vent cage flooding, care should be taken to place MITEARREST bedding dway from the water bottle spout. replace solled MITEARREST bedding: it is recommended biTEARREST bedding be added weekly, at the hat fresh l her other bedding is changed. Continue using of for four to six weeks, or until mites or their of longer present in the fur of rodent. As mite oduct for four to six weeks, or unfil mites or their ore no longer present in the fur of rodent. As mite are not affected by this treatment, extended use of educt (until all eggs have hatched or are no longer than the form control and pre-

STORAGE AND DISPOSAL

Store at room temperfure. Do not contaminate water, food or feed by storagen a stepostal. Unused or soiled MITEARREST bedding is biodegradable and may be disposed of with other bedding such as wood chips, shave ings, etc.) or refuse. Soiled MITEARREST bedding may be autoclaved or incinerated.

present) will provide greater long-term control and pre-vent reintestation.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS **

Avoid contact with eyes and skin. Chronic exposure t skin may cause dermal irritation or tingling. Wash thor oughly with soap after handling.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. Do not contain nate water by disposal.

NOTE:

This product contains a pyrethroid insecticide which the caged animal may ingest or come into dermal contact with. Researchers should consider the possible effects of contact with this insecticide before using this product.

U.S. Patent No. 4,662,104

EcoHealth, Inc., 62742-2400 110 Broad Street, Boston, MA 02110

NOT REVIEWED
In accordance with PR Notice 33-4
Based on draft labeled as

ECOHEALTH, INC.

December 13, 1990

Mr. George LaRocca
PM #15
Registration Division
H7505C
Insecticide-Rodenticide Branch
Environmental Protection Agency
Crystal Mall, Building 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Re: Product Name: MITEARREST EPA Registration No: 56783-2

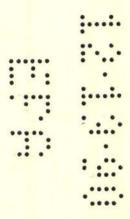
Dear Mr. LaRocca:

Enclosed please find five copies of our revised MITEARREST labels for your files. Please feel free to contact either Dr. Thomas Mather (617-731-6470) or this office directly, if you have any questions or comments, or if additional materials are required.

Sincerely,

Susan Wegzyn

/enc.



US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767)

WASHINGTON, DC 20460

NOTICE OF PESTICIDE: REGISTRATION

REREGISTRATION

(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)

TERM OF ISSUANCE

Until Reregistration

NAME OF PESTICIDE PRODUCT

Mite Arrest

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

-

EcoHealth, Inc. 110 Broad Street Boston, MA 02110

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2. Make the labeling changes listed below before you release the product for shipment:
 - Add the phrase, "EPA Registration No. 56783-2. "
 - Under the Storage and Disposal Statement delete the word "safely". Words or phrases as to the safety of a pesticide are not acceptable.
 - Revise the front panel user statement to read:

For Commercial/Veterinary Use Only

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

EPA Form 8570-6 (Rev. 5-76)

PREVIOUS EDITION MAY BE USED UNTIL SUPPLY IS EXHAUSTED.

d. Since laboratory rodents are used for various "research" purposes, we suggest you add the following statement under the heading Note:

This product contains a pyrethroid insecticide which the caged animals may ingest or come into dermal contact with. Researchers should consider the possible effects of contact with this insecticide before using this product.

3. Submit five copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

George T. LaRocca Product Manager 15 Insecticide-Rodenticide Branch Registration Division (H7505C)

Enclosure

MITE ARREST

EPA Reg. No. 56783-E

EPA Est. No. 5693 MA 1

INSECTICIDAL BEDDING FOR LABORATORY RODENTS

Permethrin impregnated cotton bedding to control mite infestations on laboratory rodents.

Intended for Commercial/Veterinary Use Only

ACTIVE INGREDIENTS:

+(3-phenoxyphenyl methyl (+/-) <u>cis/trans</u> 3-(2-dichloroethenyl)-2,2-dimethyl cyclopropanecarboxylate

*Cis/trans ratio: Min. 35% (+/-) cis and max. 65% (+/-) trans

Contents:

KEEP OUT OF REACH OF CHILDREN

CAUTION

Statement of Practical Treatment

IF SWALLOWED - Contact a physician or Poison Control Center immediately.

IF ON SKIN - Remove contaminated clothing and wash affected areas with plenty of soap and water.

IF IN EYES - Flush eyes with plenty of water. Call a physician if irritation persists.

See additional precautionary statements

EcoHealth, Inc., 110 Broad Street, Boston, MA 02110

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Application instructions:

Place treated cotton directly in rodent cage to be treated. Use about 3 cotton balls or 3 inches of cotton for each rodent in the cage. Avoid wetting the cotton; to prevent cage flooding, care should be taken to place cotton away from the water bottle spout. Replace soiled cotton; it is recommended that fresh cotton be added weekly, at the time when other bedding is changed. Continue using the product for four to six weeks, or until mites or their eggs are no longer present in the fur of rodent. As mite eggs are not affected by this treatment, extended use of the product (until eggs are no longer present) will provide greater long-term control and prevent reinfestation.

STORAGE AND DISPOSAL

Store at room temperature. Do not contaminate water, food or feed by storage and disposal.

Unused and soiled cotton is biodegradable and may be safely disposed of with other bedding (such as wood chips, shavings, etc.) or refuse. Soiled cotton may be autoclaved or incinerated.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

Avoid contact with eyes and skin. Chronic exposure to skin may cause dermal irritation or tingling. Wash thoroughly with soap after handling.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. Do not contaminate water by disposal.

with COMMENTS in EPA Letter Dated:

JUL 1 8 1990

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

56783-2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, DC 20460

APR 1 9 1990

OFFICE OF PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT:

EPA File # 56783-E. Permethrin: Registration of a

new use pattern and the product Mite Arrest.

TOX CHEM No.: 652BB TOX PROJECT No.: 0-0693

Record Non: 259013

FROM:

John Doherty Jam Johle Section I, Toxicology (Branch I (IRS)

Health Effects Division (H7509C)

TO:

George LaRocca

Product Manager #15

Registration Division (H7505C)

THROUGH:

Roger Gardner Rom Harden 4/1910

Section I, Toxicology Branch I (IRS) Health Effects Division (H7509C)

Background

The EcoHealth Corporation is seeking to register their product Mite Arrest (EPA File Symbol 56783-E) which consists of cotton impregnated with permethrin and which will be placed in laboratory animal cages to control mites. This product is the same as the product Tick Buster which was previously reviewed by Toxicology Branch (refer to J. Doherty review dated February 25, No new toxicity data were submitted. Thus, Toxicology Branch need only to address the new use of this formulation.

Toxicology Branch Comments

Toxicology Branch has no objections regarding the registration of this product.

Note: Toxicology Branch suggests that the following note or a similar note be added to the label. "This product contains a pyrethroid insecticide which the caged animals may ingest or come into dermal contact with. Researchers should consider the possible effects of contact with this insecticide before using this product".

Use this form for individual studies & to submit pesticide applications.

	65288
9	EPA

United States Environmental Protection Agency Office of Pesticide Programs Washington, DC 20460

Data Review Record

Confidential Business Information - Does not contain National Security Information (E.O. 12065) 0-0693

Pack Number

2115/90

Date Received

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PRODUCT PERFORMANCE REVIEW

PM: 12 OUT: 6-8-90

Mite Arrest IN: 2-12-90
56783-E DUE: 5-12-90
Ecohealth, Inc. AC: 175
Boston, MA RN: 259013

FORMULATION

Active Ingredient:
permethrin 7.48

The formulation is permethrin impregnated cotton balls (used for bedding material for laboratory rodents).

USES AND LABELING

This product has been designed to control mite infestations on laboratory rodents. Directions for use are as follows:

Treated cotton balls are placed directly into rodent cages. Recommended use rate is 3 cotton balls or 3 inches of cotton for each rodent in the cage. Avoid wetting the cotton; to prevent cage flooding, care should be taken to place cotton away from the water bottle spout. Soiled cotton should be replaced and fresh cotton added weekly when other bedding is changed. The product is to be used for four to six weeks or until mites or their eggs are no longer present in the fur of the rodents. Mite eggs are not controlled by this treatment, therefore, greater long-term control and prevention of reinfestations can best be achieved by extending treatment until eggs are no longer present in the fur of the rodents.

DATA

Thomas Mather, EcoHealth employee and research scientist for Harvard School of Public Health and Niels Lausen, Animal Resources Center at Harvard Medical School, performed the efficacy tests used to support the registration of this product.

Efficacy of this product in controlling the following fur mites was determined: Myobia musculi, Radfordia affinis and Mycoptes musculinus (Acari: Myobiidae). The authors indicate that these mites can infest whole colonies of laboratory rodents and adversely affect the health of the rodents (and confound the results of the laboratory tests). Mite infestations often result in hypersensitivity-induced skin lesions which can promote secondary bacterial infection. Infested mice may exhibit alterations to their normal immune status and epidermis and hazer

regrowth may be affected in some strains. Severe or prolonged infestation can result in permanent disfigurement due to scratching. Controlling these mites in laboratory animals has been difficult due to toxicity of miticidal agents to the animals and handlers and lack of long-term control. Permethrin had shown potential as a miticidal agent because when applied directly to mice or mixed in powder form with wood shaving, it provided satisfactory short-term reductions in mite infestations without producing any noticeable effect to treated mice, including histopathologic findings in liver, lung and kidney.

The authors also summarized their success with the similar product Damminix for controlling Ixodes dammini ticks in natural infestations of the white footed deer mouse. The authors attributed part of the success of the Damminix product to the high degree of acceptability of the cotton as nesting material for the mice. They noted the affinity the mice had for the treated cotton in laboratory tests and determined that this would also be a good technique for controlling mites in laboratory rodents.

Methods

The study was conducted on a transgenic mouse colony (all backcrossed to CD-1 or Balb/C mice) holding about 20 strains and approximately 1200 mice total. The colony was 24 months old and infested with fur mites. Mice were caged in standard shoebox cages, each holding l-5 mice per cage. All treatment cages were kept in one room on stainless steel racks. Animals were fed and watered ad libitum and the wood chip bedding lining the bottom of the cages was changed once weekly.

Mice were examined for mite infestation using the scotch tape impression method with microscopic interpretation. This method was chosen because it permits adequate sampling of the animal pelage without the need for skin scrapings under anesthesia or post-mortem inspections. The Harvard medical laboratories have found this system to be as reliable for determining mite infestations as scrapings.

Eight cages from each rack were randomly selected and marked. The head and back of 50% of the mice (usually 2) from each of the marked cages were examined for mite and mite egg infestation using the scotch tape impression method. The mice were examined both before and after one, two and four weeks of treatment.

Standard cotton balls (about 2 cm in diameter) were impregnated with permethrin as follows: the cotton balls were soaked in aqueous solutions of permethrin, the volume of liquid used was sufficient to just saturate the cotton mass (about 10 times the weight of the cotton). Three treatment levels of permethrin 0.3,

5.0 and 7.4% active permethrin (w/w) per dry cotton ball (actual concentration of permethrin will depend upon type of cotton used) and an untreated check were used in this study. After soaking, the cotton balls were air dried. The concentration of permethrin in the various batches of cotton was confirmed by examination of acetone extracts from treated cotton balls using reverse phase High Pressure Liquid Chromatography, employing a Cl8 column with the sample diluted in 80% methanol in water. Effluent from the column was monitored at 280 nm, and the area of each peak was calculated by computer.

Following the initial examination of the mice for mite counts, the technologist in charge of care of the colony was provided with the treated and untreated cotton balls and instructed to give all of the cages on a rack cotton containing the same concentration of permethrin throughout the study. Each cage on a rack received about 5 cotton balls per mouse up to a total of 25 cotton balls per cage. Fresh cotton was provided weekly to all cages at the same time bedding was changed. All sampling, examinations and evaluations were performed by the authors without knowledge of the treatment given. Only the technologist knew the level of treatment for each rack.

Results

The initial sampling of the colony indicated that 88% (n = 76) were infested with mite eggs awhile 40% were infested with nymphal or adult mites. Totally, 90% of the mice were infested with either eggs or mites. Mites identified included M.muscali, R.affinis, and M.musculinus, however, separate counts of the species were not provided. A heavy infestation was characterized by more than 5 adult or nymphal mites or more than 15 eggs per slide and occurred on about 20% of the mice. Only 10% of the mice with heavy infestations exhibited severe symptoms, including lesions. The authors indicated that mice readily accepted the treated cotton and used it to construct nests.

A summary of the experiment follows:

TABLE 1.
Summary of Actual Counts of Mite Eggs, Nymphs and Adults Infesting Mice Treated with Cotton Impregnated with Various

Infesting Mice Treated with Cotton Impregnated with Various Concentrations of Permethrin.

RACK #	TREATMENT	MITE STAGE	PROPOR WEEK 0	TION OF MIC	E INFESTED WEEK 2	ON WEEK 4
I	5%	EGGS MITES	11/16 5/16	9/15 1/15	3/15 1/15	5/15 0/15
II	7.4%	EGGS MITES	11/15 5/15	11/16 0/16	2/15 0/15	3/15 0/15
III	0.5%	EGGS MITES	16/16 10/16	15/15 1/15	7/15 7/15	8/15 2/15
VI	CONTROL	EGGS MITES	15/15 6/15	14/15 13/15	10/13 9/13	12/13 4/13
V	7.4%	EGGS MITES	14/14 4/14	14/14 1/14	4/11 0/11	6/12 0/12

TABLE 2.

Percent Control of Mite Eggs, Nymphs and Adults Infesting Mice Treated with Cotton Impregnated with Various Concentrations of Permethrin.

		MITE			POST-TREATMENT
RACK #	TREATMENT	STAGE	WEEK 1	WEEK 2	WEEK 4
I	5%	EGGS MITES	40 93	80 93	67 100
II	7.4%	EGGS MITES	31 100	87 100	80 100
III	0.5%	EGGS MITES	0 93	5 4 5 4	47 87
V	7.4%	EGGS MITES	0 93	64 100	50 100
					7 5

DISCUSSION

All permethrin treatments provided good to excellent control of nymph and adult mites after 4 weeks of treatment. Mice receiving the 5.0% and 7.4% a.i. permethrin treatments were adult and nymph free after 4 weeks of treatment. There was a sharp decline in nymph and adult numbers in all permethrin treatments one week after initial treatment. Egg counts declined after 2 weeks of treatment in all permethrin treatments. Eggs were detected in all treatments 4 weeks after the initial treatment, however, the authors indicated that some of the eggs were empty.

The authors provided the following discussion of the results:

our study, mice were mite-free in both the 5% and 7.4% weeks of applying treated nest treatments after four material, although a few embryonated and empty mite eggs remained on fur of some mice. We observed that eggs present prior and on control mice could be initial treatment distributed anywhere along the entire hair shaft, whereas, most eggs found on treated mice later during the study were usually nearer distal end of the hair. Eggs observed close to the base of the hair shaft were more likely embryonated, while eggs observed near the distal end were most often empty. Additionally, after three and four weeks of treatment, eggs were found on fewer of the mice treated with 5% and 7.4% cotton than at the beginning of the Taken together, these observations suggest that new study. oviposition ceased near the time of first application. Given the day natural life cycle of these mite, the fact that egg hatching is nonsynchronous and continuous, and that permethrin treatment is not ovicidal, a minimum of four to five treatment of the entire colony would appear necessary to prevent Furthermore, extended use treated reinfestation. of material can prevent new infestations in settings where mice are introduced from outside continually the colony, contamination from feral animals is a possibility."

The authors have provided some good information on the life cycle of the mites and egg placement before and after permethrin treatment. The data indicate that adult and nymphal stage mites are controlled after four weeks of continuous application of the 5.0% or 7.4% a.i. treatments. A further test of the effectiveness of this product would be to continue sampling the mice after discontinuing treatment after week 4 to determine if any of the embryonated eggs were viable and if reinfestation occurred.

This treatment would probably not be permissible for laboratory rodents intended for use in insecticide testing.

CONCLUSIONS

The data are acceptable to support the label claims.

Pat Bagley PM 17 Efficacy Review

5. Date Signed

90

4. Typed Name

THOMAS MATHER

Paperwork Reduction Act Notice and Instructions

Paperwork Reduction Act Notice

Public reporting burden for this collection of information is estimated to average of 0.85 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Instructions

General

This form is to be used for all applications for new and amended registrations for pesticide products.

In order to process an application for new registration submitted on this form, the following material must accompany the application:

- Offer to Pay Statement (EPA Form 8570-22, -23, or -24). (If not exempted by 40 CFR 162.9-1(b).)
- 2. Confidential Statement of Formula (EPA Form 8570-4).
- 3. Five copies of draft labeling.
- 4. Three copies of any data submitted,

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on $8\ 1/2\ x\ 11$ inch paper or as a mockup of the proposed label. If prepared as a mockup it should be constructed in such a way as to facilitate storage in an $8\ 1/2\ x\ 11$ inch file. Mockup labels significantly smaller than $8\ 1/2\ x\ 11$ inches should be mounted on $8\ 1/2\ x\ 11$ inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

Specific

Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Section I, III, and IV must be completed by the applicant. For applications submitted in connection with amended registration actions, Section I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

Section I - This Section must be completed for both Registration and Amended Registration actions.

- Company/Product Number Insert your company number, if
 one has been assigned. This number may have been assigned
 to you as a basic registrant, a distributor, or as an establishment. If application is for an amendment, insert the registration number of the product.
- 2. Date Fill in the appropriate date.
- Product Manager If known, fill in the name and number of the Product Manager.
- Proposed Classification Specify the proposed classification for this product.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom registration will be issued. If you are acting in bobal of another party, you must submit authorization from that party to act for them in registration matters.

An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.

6. Product Name - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.

Amendment Information

Section II - This Section must be completed for all applications submitted in connection with Amended Registration.

 Subject of Amendment - Check the appropriate block, and provide a brief explanation of the purpose(s) for the amendment, such as: "the addition of a site, pest, or crop"; "to change inert ingredient"; "general label revisions of precautionary statements," etc.

Packaging and Container Information

Section III - This Section must be completed for all applications submitted in connection with New Registration.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- Type of Retail Container Indicate type of container in which product will be marketed.
- Location of Net Contents Specify the net contents of all retail containers for your product.
- Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- Location of Use Directions Indicate the location of the use directions for your product.
- Manner in which label is affixed to product Indicate the method product labeling is attached to retail container.

Contact Point

Section IV - This Section must be completed for all Registration and Amended Registration applications.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

Ilonas M. Wather.

ECOHEALTH, INC.

The Malescond Charles and the Charles and the

The Makers of **DAMMINIX**

January 19, 1990

Mr. George LaRocca, PM #15 Registration Division (H7505C) Insecticide-Rodenticide Branch Environmental Protection Agency Crystal Mall Building 2 1921 Jefferson Davis Highway Arlington, VA 22202

Re: Mite Arrest, EPA File Symbol 56783-E
Application for Pesticide Registration, OPP ID #138108

Dear Mr. LaRocca:

Enclosed please find registration information for the above-referenced product. Please take note that in the midst of preparing this application, EcoHealth, Inc. moved its primary location of business from 33 Mount Vernon Street, Boston, MA to 110 Broad Street, Boston, MA. Several papers within this package of registration materials still have the former address printed on them. In the future, please submit all correspondence regarding this application to:

EcoHealth, Inc. 110 Broad Street Boston, MA 02110

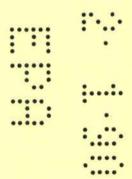
Our telephone number remains the same - (617) 742-2400.

We look forward to hearing from you soon.

Sincerely,

Susan Wegzyn EcoHealth staff

/enc.



1:								
							1. PAGE 1 OF 3	1 OF 3
		DATA	REFERI	TA REFERENCE MATRIX	RIX		2. EPA REGISTRA FILE SYMBOL:	EPA REGISTRATION NO/FILE SYMBOL: $56783 - E$
3. APPLICAN	3. APPLICANT'S NAME AND ADDRESS			4. PRODUCT NAME:			FORMULAT SELECTED:	OR'S E
ECOHI	ECOHEALTH INC.			MITE ARREST	ST	,	YES X	NO
110'B Bosto	110 Broad Street Boston, MA 02110			5. NAME OF ACTIVE INGREDIENT(S): PERMETHRIN	INGREDIENT(S): IN		6. TO ACC FOR RE	6. TO ACCOMPANY APPLICATION FOR REGISTRATION DATED
	TO 144 DE COLUMN STATE			COURSE OF DATA CATICEVING BEOLIBERING	Olidendary			
9. 8a. Regulation Part 158/ Guldeline Number	Name of Requirement	9a. Submitted by Applicant	9b. Date Submitted	9c. Submitted by another person/firm (name)	9d. Certificate of Permission (P) or Offer to Pay (OTP) enclosed	9e. Public Literature	9f. N.A. or Waiver or other (explain)	EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
§158.20	PRODUCT CHEMISTRY							
61-1	IDENTITY OF INGREDIENTS	x	10/20/85					00164297
61-2	STATEMENT OF COMPOSITION	X	10/20/86					00164297
61-3	DISCUSSION OF FORMATION OF IMPURITIES	×	10/20/86					00164297
62-1	PRELIMINARY ANALYSIS	X	10/20/86					00164297
62-2	CERTIFICATION OF LIMITS	x	10/20/86					00164297
62-3	ANALYTICAL METHODS FOR ENFORCEMENT OF LIMITS	X	10/20/86					00164297
63-2	COLOR	x	10/20/86	!				00164297
83.3	PHYSICAL STATE	X	10/20/86					00164297
88	OGOR	X	10/20/86					00164297
83-5	MELTING POINT						N.A.	
989	BOILING POINT			,			N.A.	
2-89	• DENSITE BULK DENSITE, OR SPECIFIC GRAVITY	X	10/20/86					00164297
8:8	SOLUBILITY						N.A.	
63-9	VAPOR PRESSURE						N.A.	
63-10	DISSOCIATION CONSTANT						A.A.	

•							1. PAGE 3 OF 3	3OF3
!		DATA	REFER	DATA REFERENCE MATRIX	RIX		2. EPA REGISTRA FILE SYMBOL:	EPA REGISTRATION NO/ FILE SYMBOL: 56783-
3. APPLICAN	3. APPLICANT'S NAME AND ADDRESS			4. PRODUCT NAME:			FORMULATO SELECTED:	OR'S E
ECOHI	ECOHEALTH INC.			MITE ARREST	3T		YES X	ON
Bostor	110 Broad Street Boston第Ma 2108			5. NAME OF ACTIVE INGREDIENT(S):	(NGREDIENT(S):		6. TO ACC FOR REC	6. TO ACCOMPANY APPLICATION FOR REGISTRATION DATED
;	3			PERMETHRIN	Z		1/9/90	90
α.	I DATA REQUIREMENTS		SOURCE OF	SOURCE OF DATA SATISFYING REQUIREMENT	QUIREMENT			10. MRID NUMBER
8a. Regulation Part 158/ Guideline Number	8b. Name of Requirement	9a. Submitted by Applicant	9b. Date Submitted	9c. Submitted by another person/firm (name)	f (P) or (OTP)	9e. Public Literature	9f. N.A. or Waiver or other (explain)	EPA ACCESSION NUMBER OR OTHER EPA IDENTIFYING NUMBER
\$158.135	TOXICOLOGY							
81-1	ACUTE ORAL LD-50, RAT			Fairfield Corp	x ·			
81-2	ACUTE DERMAL LD-50, RABBIT			=	x			
81-3	ACUTE INHALATION LC-50, RAT			=	x			
814	PRIMARY EYE IRRITATION, RABBIT			=	х			
81-5	PRIMARY SKIN IRRITATION, RABBIT			=	х			
81-6	DERMAL SENSITIZATION, GUINEA PIG			=	×			
••••								
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,							1. PAGE 2 OF 3	2 OF 3
·		DATA	REFERI	ITA REFERENCE MATRIX	RIX		2. EPA REGISTR. FILE SYMBOL:	2. EPA REGISTRATION NO./ FILE SYMBOL: 56783-E
3. APPLICAN	3. APPLICANT'S NAME AND ADDRESS			4. PRODUCT NAME:			SEI ECTED:	OR'SE
ECOHI	ECOHEALTH INC.			MITE ARREST	ST		YES X NO	NO.
f10 Br Posten	110 Broad Stréet Postan, Ma 92110			5. NAME OF ACTIVE INGREDIENT(S): PERMETHRIN	INGREDIENT(S):		6. TO ACC FOR RE	6. TO ACCOMPANY APPLICATION FOR REGISTRATION DATED
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æ	DATA REQUIREMENTS	9.	SOURCE OF	SOURCE OF DATA SATISFYING REQUIREMENT	QUIREMENT			10. MRID NUMBER
8a. Regulation Part 158/ Guideline Number	8b. Name of Requirement	9a. Submitted by Applicant	9b. Date Submitted	9c. Submitted by another person/firm (name)	9d. Certificate of Permission (P) or Offer to Pay (OTP) enclosed	9e. Public Literature	9f. N.A. or Waiver or other (explain)	EPAACCESSION NUMBER OR OTHER EPAIDENTIFYING NUMBER
§158.20	PRODUCT CHEMISTRY (Continued)							
63-11	OCTANOL/WATER PARTITION COEFFICENT						N.A.	
63-12	Hd	х	10/20/86					00164297
63-13	STABILITY						N.A.	
63-14	OXIDIZING/REDUCING REACTION	X	10/20/86					00164297
63-15	FLAMMABILITY	X	10/20/86					00164297
63-16	EXPLODABILITY	X	10/20/86					00164297
63-17	STORAGE STABILITY	x	10/20/86					00164297
63-18	VISCOSITY	x	10/20/86					00164297
63-19	MISCIED_ITY	×	10/20/86				_	00164297
63-20	CORRESION ON PRACTERISTICS	x	10/20/86					00164297
63-21	DIELECTRIC BREAKDOWN VOLTAGE						N.A.	
•	•	ļ						
		,						

CERTIFICATION WITH RESPECT TO CITATION OF DATA

ECOHEALTH, INC.

33 Mt. Vernon Street, Boston, MA 02108

EPA FILE/SYMBOL/REG. NO. 56783-NAME OF PRODUCT: Mite Arrest DATE OF APPLICATION

- 1. This application is supported by all data submitted or cited in the application. In addition, if cite-all options are indicated, this application is supported by all data in the Agency's files that concern the properties or effects of this product or of any other product that is identical or substantially similar, and that is one of the types of data that would be required to be submitted if this application sought the initial registration of a product of an identical or similar composition and intended uses under the data requirements in effect on the date of approval of this application.
- 2. I certify that, for each study cited in support of this application for registration that is an exclusive use study, I have obtained the written permission of the original data submitted to cite that study.
- 3. I certify that, for each study cited in support of this application for registration that is NOT an exclusive study:

I have obtained the written permission of the original data submitted to cite the study; OR

I have notified in writing the companies who have submitted data I have cited to support this application and have offered to: (a) Pay compensation for those data in accordance with section 3(c)(1)(D) and 3(c)(2)(D) of the Federal Insecticide, Fungicide and Rodenticide Act; and (b) Commence negotiation to determine which data are subject to the compensation requirements of FIFRA and the amount and terms of compensation due, if any. The companies I have notified are: (CHECK ONE)

[] All companies listed on the Pesticide Data Submitters List for all active ingredients contained in my product (cite-all method or cite-all option under Selective Method). (ALSO SIGN THE GENERAL OFFER TO PAY STATEMENT BELOW.)

[X] Those companies who have submitted the studies which I have cited (SELECTIVE METHOD)

Thomas N. Mather	Thomas Mather, Chief Research Scientist	1/9/90
(Signature)	(Name & Title)	(Date) *
persons, with regard to the approves sec. 3(c)(1)(D) and 3(c)(2)(D).	ereby offer and agree to pay compensation to oth val of this application, to the extent required by F	IFRA
Thomas h. Mather	Thomas Mather, Chief Research Scientist	
(Signature)	(Name & Title)	(Date).

FORMULATOR'S EXEMPTION STATEMENT

(40 CFR 152.85)

ECOHEALTH INCORPORATED
33 Mt. Vernon Street, Boston, MA 02108

EPA FILE SYMBOL/REG. NO. 56783 NAME OF PRODUCT DATE OF CSF

As an authorized representative of the applicant for registration of the product identified above, I certify that:

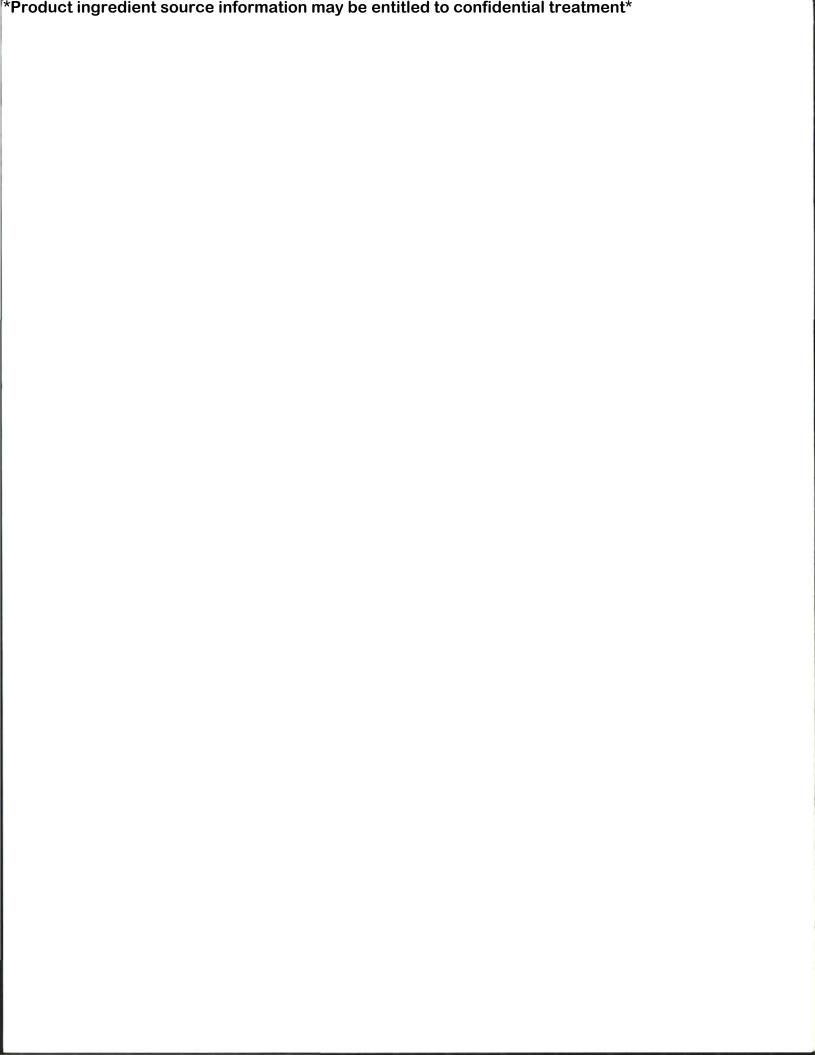
- (1) This product contains the following active ingredient(s):
 Permethrin
- (2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the incorporation into the product (during formulation or packaging) of another product which contains that active ingredient, which is registered under FIFRA Section 3, and which is purchased by us from another producer.
- (3) Indicate by checking (A) or (B) below which paragraph applies:
- X (A) An accurate Confidential Statement of Formula (CSF) (EPA Form 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

- (B) The CSF (EPA Form 8570-4) referenced above and on file with the EPA is complete, current, and accurate and contains the information required on the current CSF.
- (4) The following active ingredients in this product qualify for the formulator's exemption.

Active Ingredient	Product Name Source Regis	stration #		
	Troduct Name Regis	stration #		
Permethrin				•
		••• ,	•	:
Thomas N. Mather	Thomas Mather, Chief Research Scientist	1/9/90		
(Signature)	(Name & Title)	(Date)	:.	•••
		•••••	:.	:::
			. •	•••

^{*}Product ingredient source information may be entitled to confidential treatment*



U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs

ECOHEALTH, INC. 33 MOUNT VERNON ST. BOSTON, MA 02108

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your transmittal of 02/01/90. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your coop- eration. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.

ECOHEALTH, INC.

The Makers of DAMMINIX

January 9, 1990

Mr. George LaRocca, PM #15
Registration Division (H7505C)
Insecticide-Rodenticide Branch
Environmental Protection Agency
Crystal Mall Bldg. 2
1921 Jefferson Davis Hwy.
Arlington, VA 22202

413783-**\$**\$

SUBJECT: Mite Arrest, EPA File Symbol 56783-E

Application for Pesticide Registration, OPP ID # 138108

Dear Mr. LaRocca:

Enclosed please find EcoHealth Inc.'s subject registration application for a pesticide containing the active ingredient permethrin. The proposed product is nearly identical to our existing registration for Damminix (EPA Reg. No. 56783-1), but incorporates a new use pattern (for use on laboratory animals against mites). As this product is identical in formulation to Damminix, we ask that you refer to the existing data in that registration file in support of the Product Chemistry data requirements. To satisfy the additional requirements for registration of this product, we are enclosing the following:

Administrative Materials:

- 1. Application Form (OPP ID # 138108)
- 2. Formulator's Exemption Statement
- 3. Certification with Respect to Citation of Data
- 4. Confidential Statement of Formula
- 5. Data Reference Sheet
- 6. Proposed product labeling (five copies)

Supporting Data:

H1378301

47. Volume 1 - Product Performance Data (three copies)

Should you have any questions or require further information, please don't hesitate to call (617/731-6470).

Sincerely,

Thomas N. Mather, Ph.D.

Thomas N. Mather, Ph.D. Chief Research Scientist

CERTIFIED MAIL
RETURN RECEIPT NUMBER

	· ·		record r	
	•		Reference N	lumber
			Input	Date
CODING FORM FOR APPLIC	ATIONS FOR REGIST	RATION/AMENDMENTS	<u> </u>	
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(1) Condition	nal (2)	Unconditional	/ (N)	Not-Applicable
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// (4) Not Applicat	ole /// (7) Tot	al Submission		Submitted -
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Reviewers Requested:	DATE DUE SENT DATE		RESPONSE CODE	RESPONSE DATE
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PM				
PL				
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EF				
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108 Status:	·			
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